

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Agency Interest No. 2416
Activity No.: PER20080003

Mr. Louis M. Frey, III
Vice President / General Manager - Donaldsonville
CF Industries, Inc.
P.O. Box 468
Donaldsonville, LA 70346

RE: Part 70 Operating Permit Significant Modification, CF Industries, Inc., Donaldsonville, Ascension Parish, Louisiana

Dear Mr. Frey:

This is to inform you that the permit significant modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the thirteenth of June, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2009.

Permit No.: 0180-00004-V4

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN: KCW
c: EPA Region VI

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

I. Background

CF Industries, Inc. has operated the Donaldsonville Nitrogen Complex from before 1969. Nitrogen based compounds produced are ammonia, urea, and urea ammonium nitrate (UAN). Nitric acid and ammonium nitrate are produced as intermediates.

Ammonia Plants No. 1 and No. 2 were constructed before 1969. Urea Plant No. 1 was added under Permit No. 148, dated March 7, 1973; process condensate strippers were installed under Permit No. 221, granted October 30, 1973; and two fuel oil tanks were authorized under Permit No. 423T, approved March 24, 1975. Nitric Acid Plant No. 1 and Ammonia Plants Nos. 3 & 4 were constructed under Permit No. 464, issued July 9, 1975.

All existing sources were consolidated in Permit No. 464R1, dated August 26, 1975, which added Urea Plant No. 2, the old UAN No. 1 Plant, and Ammonia Plant No. 5 (never built). Permit No. 1285, issued November 11, 1979, deleted Ammonia Plant No. 5 and discontinued fuel oil use in Ammonia Plant No. 4, increased production in Urea Plant No. 2, and approved a 2000 TPD Urea Plant No. 3 (never built) and a boiler (never built) for Urea Plant No. 2.

Permit No. 0180-00004-01, dated June 7, 1991, authorized the new UAN No. 1, a dedicated 3425 TPD UAN solution plant, which replaced the old UAN No. 1. The new UAN No. 1 included a 1200 TPD Urea Plant No. 3, a 1525 TPD replacement ammonium nitrate unit, and a 500 TPD No. 2 Nitric Acid Plant. Production increases and design changes were authorized under Permit No. 0180-00004-02, dated October 28, 1992.

Under Permits Nos. 0180-00004-03 and 0180-00004-04, dated December 10, 1993, and September 12, 1994, respectively, H₂ removal units were constructed in Urea Plants Nos. 1 & 2. Production increased from Urea Plants Nos. 1, 2, & 3, and annual production rates of ammonia from Ammonia Plants Nos. 3 & 4 were increased. The permits were updated for equipment design changes.

PSD-LA-594 and the accompanying state Permit No. 0180-00004-05, dated April 29, 1996, allowed PM₁₀ emissions associated with the new Urea Plant No. 4, Nitric Acid Plant No. 3, and UAN No. 2 Plant.

The Donaldsonville Nitrogen Complex operated under Permit No. 0180-00004-07, dated March 25, 1998, for a project debottlenecking Ammonia Plants Nos. 1 & 2 similar to the project for Ammonia Plants Nos. 3 & 4 authorized under Permit No. 0180-00004-06, dated May 19, 1997, and updating locations for emission points approved under Permit No. 0180-00004-05 to reflect final construction plans.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

The initial Part 70 Operating Permit, 0180-00004-V0, for the entire Donaldsonville Nitrogen Complex was issued on March 3, 2000. The facility was issued an administrative amendment on November 22, 2000. The facility was issued Permit No. 0180-00004-V1 on October 18, 2004, and PSD Permit No. PSD-LA-594, on April 29, 1996. The facility was issued a renewal under Permit No. 0180-00004-V2 on June 13, 2007, and PSD Permit No. PSD-LA-594 (M-1), on June 7, 2007. The facility is currently operating under a minor modification issued December 17, 2007 as Permit No. 0180-00004-V3.

This is a major modification to the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire was submitted by CF Industries, Inc. on May 9, 2008 requesting a minor modification to the Part 70 operating permit. Supplemental information was submitted on October 29, 2008 requesting a Prevention of Significant Deterioration permit for an Energy Retrofit project, making it a major modification request.

III. Description

The Donaldsonville Nitrogen Complex produces the nitrogen based compounds ammonia, granular urea, and urea ammonium nitrate (UAN). Production starts with the manufacture of ammonia. Ammonia is used to produce urea, nitric acid, and ammonium nitrate (AN). Urea solution and ammonium nitrate are mixed to form UAN solution.

The existing permitted facility consists of four ammonia plants, three granular urea plants, one urea solution plant, three nitric acid plants, two AN neutralization units, and two UAN plants. Current permitted production capacity is 2.409 MM tpy of ammonia, 2.765 MM tpy of urea, 903,750 tpy of nitric acid (expressed as 100% nitric acid), 1.148 MM tpy of AN, and 2.552 MM tpy of UAN.

Ammonia Production

Ammonia is formed from air, water, and natural gas in a series of process steps. Production capacity increased as a result of debottlenecking under Permit No. 0180-00004-06, by 56,000 tpy of ammonia, and by another 232,600 tpy under Permit No. 0180-00004-07.

Initially, air is filtered and compressed to 600 psig, water is clarified and demineralized, and natural gas is desulfurized. Steam and natural gas are reformed in a catalytic reactor furnace to hydrogen and carbon oxides (1500°F, 500 psig, nickel catalyst). Unreacted gases go to the secondary reformer, compressed air is added, and further reaction occurs.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

dioxide (CO₂). The CO₂ is removed from the process gas in an absorber column by passing it through an alkanol amine solution. Trace quantities of carbon oxides are reacted to methane in the methanator. Steam strippers remove CO₂ from the alkanol amine solution. About 80% of the CO₂ produced in the ammonia plants is used as feed for urea production; the rest is vented or sold.

The purified process gas, now a 3 to 1 mixture of hydrogen and nitrogen known as synthesis gas, is compressed to 2,300 psig by a steam-driven, centrifugal compressor and circulated through an ammonia converter. Approximately 13% reacts to form ammonia. A refrigeration system condenses the ammonia out of the synthesis loop gas stream that is then recycled. A "warm" ammonia stream (56°F) is sent as feed material to the urea, nitric acid, and AN production or to the product pipeline. A "cold" ammonia liquid (-28°F) is sent to storage.

The Low Pressure Purge Gas Recovery Unit (LPPGRU) removes ammonia from the low-pressure purge gas streams used as fuel in the ammonia plant reformers. Recovered ammonia is recycled, reducing the amount combusted. This recycled ammonia reduces the NO_x emitted from the reformer stack, from 500-ppm average to 150-ppm average. For approximately 5 days per year, however, the LPPGRU is shutdown for maintenance. Under an alternate operating scenario, the LPPGRU is bypassed and the process gas is routed as it was originally configured, directly to the reformers. The NO_x reduction associated with Ammonia Plant No. 3, (416.0 tpy based on 1989/1990 production), was used as offsets for the new UAN No. 1 project.

Ammonia process condensate is steam stripped to meet effluent standards. Prior to 1986, stripper overhead streams were added to flue gas for Ammonia Plants Nos. 3 & 4 reformers. Stripper overhead is now condensed; with noncondensibles venting to the reformer stacks and condensed liquids routing to a condensate surge drum prior to recycle through a KTI feed saturator unit into the feedstock for Ammonia Plants Nos. 1 & 2.

Permit No. 0180-00004-06 dated May 19, 1997, authorized a debottlenecking project for Ammonia Plants Nos. 3 & 4. An increase in production capacity, by approximately 28,000 tpy per plant, and an improvement in fuel efficiency, by about 0.6 MM BTU/ton of product, resulted from the project.

Modifications increased capacities of the synthesis gas compressors and purge gas recovery system, upgraded ammonia converters and cooling towers, and changed piping. Additional electric-driven, ammonia refrigeration compressors at the dock area were not constructed.

Under Permit No. 0180-00004-07, dated March 25, 1998, debottlenecking of Ammonia Plants Nos. 1 & 2 similar to the Ammonia Plants Nos. 3 & 4 project resulted in an increase

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

in production capacity, approximately 116,300 tpy per plant, and an improvement in fuel efficiency of about 1.4 MM BTU/ton of product.

Urea Production

Urea, manufactured from ammonia and CO₂, can be granulated to produce a solid fertilizer or left in solution to be used as feed in UAN production. Capacity increased with the addition of the Urea Plant No. 4 under Permit No. 0180-00004-05 (PSD-LA-594), located on the west side of the existing complex and incorporating more up-to-date technology for emissions control.

Liquid ammonia and gaseous carbon dioxide are mixed at 2,200 psig in a condenser to form ammonium carbamate that is sent to a reactor where half is converted to urea and water. Ammonia and carbon dioxide are produced from the unconverted carbamate in a high-pressure stripper and routed back to the condenser along with make-up ammonia, CO₂, and ammonium carbamate solution recycled from the high-pressure scrubber.

Urea solution from the stripper flows to the rectifying column. Ammonia and CO₂ are removed from the urea solution. Water is removed from the purified urea solution by vacuum evaporation to produce a concentrated urea melt.

Granular Urea Production

In Urea Plants Nos. 1, 2, & 4, the concentrated urea melt goes through a granulation step. UF-85, a urea-formaldehyde concentrate additive, is injected into the molten urea prior to granulation, reacting with it to make the solid product dust free.

In Urea Plants Nos. 1 & 2, urea melt is sprayed inside granulation drums onto a moving bed of urea granules. The granules are removed and screened to the desired size and conveyed to a urea bulk warehouse. Cooling air from the granulation drums is passed through scrubbers before venting.

In Urea Plant No. 4, urea melt is sprayed inside the granulator onto a fluidized bed of urea granules. Granules are removed, screened to the desired size, cooled, and stored in a urea bulk warehouse. Fluidization air from the granulator and cooling air are scrubbed before venting.

Emissions associated with the granular urea production include natural gas combustion emissions from the plant boiler, ammonia emissions from a low-pressure absorber, and process discharge to the urea stack. Ammonia emissions, along with particulate emissions, are released from the granulator scrubbers. Scrubber water is recycled to the process. Formaldehyde emissions from the UF-85 Tanks are scrubbed before venting. The effluent liquid is recycled with the granulator solution.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

Hydrogen contamination is removed from CO₂ feedstock for Urea Plants Nos. 1 & 2 by the catalytic reaction of hydrogen and oxygen to form water. This reduces the gas load, primarily hydrogen and nitrogen, to the control equipment and allows greater contact between the ammonia, vented along with these gases, and the scrubbing medium. More ammonia is therefore removed.

An impingement wet scrubber on the new granulator of Urea Plant No. 4 constitutes Best Available Control Technology (BACT) for significant PM₁₀ emissions permitted under PSD-LA-594, dated April 29, 1996. The scrubber returns a 45% urea solution to the process for concentrating into urea melt.

Urea Solution Production

Urea Plant No. 3 has no granulation capability. It supplies the urea solution for UAN production. Urea solution for UAN production is also obtained, prior to the granulation step, from Urea Plant No. 4 and can be obtained from Urea Plant No. 2. Process steps in the plants are the same up to the evaporation step of granulation. Urea solution is processed through a flash tank then directed to the UAN mix tank.

Urea Plant No. 3 vent gases, from the urea reactor and the urea solution flash tank, are fed to the AN unit to provide the ammonia feed for the neutralizer and lower ammonia emissions from the urea solution process.

Urea Ammonium Nitrate (UAN) Production

UAN production starts by making nitric acid from ammonia, air, and water. The nitric acid is reacted with ammonia to form ammonium nitrate (AN). Ammonium nitrate is then combined with urea solution to form urea ammonium nitrate.

UAN No. 1 solution production replaced the old UAN No. 1. It consists of Nitric Acid Plants Nos. 1 & 2 and Ammonium Nitrate/UAN No. 1 unit. Urea solution is supplied by Urea Plant No. 3 and, optionally, by Urea Plant No. 2 prior to the granulation step.

UAN No. 2 was authorized under Permit No. 0180-00004-05 (PSD-LA-594) at 1.095 MM tpy of UAN production capacity. It consists of the 383,250 tpy Nitric Acid Plant No. 3 and Ammonium Nitrate/UAN No. 2 unit. Urea solution, is supplied by Urea Plant No. 4, prior to the granulation step. These new units, located on the west side of the existing complex, are similar to the existing plants, but incorporate more up-to-date technology for emissions control.

Nitric Acid Production

Production of nitric acid is initiated by converting anhydrous ammonia to a vapor at 150°F. Compressed air and gaseous ammonia are mixed and reacted over a platinum-rhodium gauze at 1625°F to produce nitrogen oxides (NO_x). The NO_x gas is cooled in the waste heat

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

boiler and sent to the absorption tower where NO_x is absorbed in water to produce nitric acid.

Nitric Acid Plants Nos. 1 & 3 are dual pressure processes. NO_x is produced at 60 psig and the acid reactions in the absorption tower take place at 160 psig.

Nitric Acid Plant No. 2 employs a single pressure process. The air and gaseous ammonia streams are reacted and the resultant NO_x is absorbed at a pressure of about 130 psig.

Plant No. 1 absorber provides NO_x abatement through extended absorption. Plants No. 2 and No. 3 use catalytic abatement units to reduce NO_x emissions exiting the absorber to less than 225 ppm in No. 2 and less than 210 ppm in No. 3.

Ammonium Nitrate/UAN Production

Ammonium nitrate (AN) is generated by combining nitric acid and ammonia feed in a neutralizer. In the UAN No. 1 plant, vent gases from the urea reactor and the urea solution flash tank of Urea Plant No. 3 provide the ammonia feed to the ammonium nitrate neutralizer. After reaction, the AN solution flows into the UAN mixing tank with urea solution and forms UAN. The UAN solution is cooled, adjusted for optimum pH, and pumped to storage.

Complex II Pipeline Flare is an intermittent source for clearing equipment prior to maintenance. Another flare was added at the pipeline injection station because of the decreased mobility of this flare.

CF Industries, Inc. performed the following modifications to the Donaldsonville Nitrogen Complex to obtain the Initial Title V permit. The modifications of Urea Plants Nos. 1, 2, & 4 improved process control and increased production. Increases in urea production capacities of, 9,125 tpy (25 TPD), 73,000 tpy (200 tpd) and 18,250 tpy (50 tpd), respectively, resulted from the project. Upgraded low-pressure carbamate condenser vessels were installed for the No. 1 and No. 4 Urea Plants and nitrogen to carbon (N/C) analyzers were installed for Urea Plants Nos. 1 & 2.

The company also corrected and updated the following:

- (1) revised emission estimates for points throughout the complex using actual NO_x emissions and current (7/98) AP-42 natural gas combustion emission factors for PM₁₀, VOC, and CO,
- (2) included existing cooling towers and three alkanol amine storage tanks not listed in previous permits,
- (3) removed emissions for a relief valve knock out drum (D-102) from the No. 4 Urea Vent (X-101), and permitted them under a separate emission point,

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

- (4) updated the Urea Plant No. 4 to 2,600 TPD as built production rate, versus the 2,450 TPD design production rate originally authorized,
- (5) listed diesel tanks as insignificant sources and deleted emission points no longer in use,
- (6) doubled the height of the UAN Storage Tank No. 817 and combined vents from the No. 2 UAN Neutralizer and UAN Mix Tank to reflect construction reconfiguration,
- (7) rearranged fugitive emissions points to more accurately portray plant configurations, and
- (8) revised ammonia emission estimates for three points in Urea Plant No. 1 to show reductions due to the H₂ destruction project permitted previously and to more accurately reflect actual emissions from TK-108.

In the Renewal and minor modification, CF Industries, Inc. adjusted the annual production rate up to the capacity of the unit for the No. 3 Nitric Acid Plant and No. 2 Urea Ammonia Nitrate (UAN) Plant. Therefore, the Nitric Acid production increased from the previously permitted 849,000 tpy up to a new production rate of 903,750 tpy. The UAN production is based on AN production which increased from 1086.75 M tpy to a new production rate of 1148.435 M tpy. Thus the UAN production increased from 2.415 MM tpy to 2.552 MM tpy. As part of the permitting effort, CF lowered the permitted emission factor used in the calculation of emissions from the No. 3 Nitric Acid Plant Absorber Stack (Emission Point 4-95) based on actual NO_x Continuous Emissions Monitoring (CEMs) data on the unit. There was no change in emissions of NO_x from the No. 3 Nitric Acid Plant Absorber Stack, the emission rates were just reconciled.

In addition, the renewal modification incorporated an emissions reduction project for ammonia, as well as several administrative changes as follows:

1. The No. 1 Nitric Acid Plant Fugitives (Emission Point 35-75) were included in the permit with authorized ammonia emissions of 1.6 tpy. Due to an administrative error, this incorrect value was included in the permit. It was corrected to 0.8 tpy as indicated by the average pound per hour value.
2. The No. 2 Nitric Acid Plant Fugitives (Emission Point 9-91) were included in the permit with authorized ammonia emissions of 1.6 tpy. Due to an administrative error, this incorrect value was included in the permit. It was corrected to 0.8 tpy as indicated by the average pound per hour value.
3. The No. 3 Nitric Acid Plant Fugitives/No. 2 UAN Fugitives (Emission Point 12-95) were included in the permit with authorized ammonia emissions of 1.6 tpy. Due to an administrative error, this incorrect value was included in the permit. It was corrected to 0.8 tpy as indicated by the average pound per hour value.
4. Updates to the No. 2 Urea UF-85 Storage Tank (Emission Point 2-92) emissions reflect the correction of the tank capacity from 47,000 gallons to 33,750 gallons, the conversion from calculating emissions using TANKS Version 3.1 to Version 4.0, and

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

inclusion of additional Material Safety Data Sheet (MSDS) composition and vapor pressure data. There was no physical modification being made to this source. Previously, the tank was permitted to emit 0.02 lb/hr and 0.075 tpy of formaldehyde (conservatively reporting all volatile organic compound (VOC) emissions as formaldehyde). Calculations were updated and emissions were included in the application as 0.01 lb/hr and 0.05 tpy total VOC, 0.0003 lb/hr and 0.001 tpy formaldehyde, and 1.6×10^{-6} lb/hr and 7.0×10^{-6} tpy methanol.

5. Table 3 modified the regulatory applicability tables in the application for the No. 3 Urea Boiler (Emission Point 1-91) and the No. 4 Urea Boiler (Emission Point 10-95) to include verbiage from the revisions made on February 18, 1999 to 40 CFR 60 Subpart Db (40 CFR 60.49b(h) and (s)). The revisions made on February 18, 1999 require excess emissions reporting as per 60.49b(h) and reporting of data required under this Subpart to be submitted semiannually as per 60.49b(s).
6. The facility requested the deletion of the requirement of State Only Specific Condition No. 8 from the facility's Title V Operating Permit (Permit No. 0180-00004-V0) as it applies to the No. 1 Ammonia Plant Hot Vent (Emission Point 2-65), the No. 2 Ammonia Plant Hot Vent (Emission Point 2-67), the No. 3 Ammonia Plant Hot Vent (Emission Point 4-75), the No. 4 Ammonia Plant Hot Vent (Emission Point 7-75), the No. 1 Ammonia Plant Process Gas Vent (Emission Point 10-65), the No. 2 Ammonia Plant Process Gas Vent (Emission Point 7-67), No. 3 Ammonia Plant Process Gas Vent (Emission Point 39-75), and the No. 4 Ammonia Plant Process Gas Vent (Emission Point 40-75). The facility states that the condition is not appropriate for high hydrogen concentration sources. The flares are not subject to any New Source Performance Standards. The requirement remained as a State Only policy requirement.
7. The facility requested the deletion of the requirement of State Only Specific Condition No. 8 from the facility's Title V Operating Permit (Permit No. 0180-00004-V0) as it applies to the Complex I NH₃ Flares (Emission Points 4-65 and 15-65), the Complex II NH₃ Flare (Emission Point 22-75), the Complex II Urea/UAN NH₃ Flare (Emission Point 47-75), the Complex II Pipeline Flare (Emission Point 3-92), and the Ammonia Flare (Emission Point 17-95). The flares at the facility are not subject to any New Source Performance Standard; but, the requirement remained as a State Only policy requirement.
8. The nomenclature in the applications Table 3 regulatory applicability tables was changed for the No. 1 UAN Plant/No. 2 AN Neutralizer Vent (Emission Point 2-91) to reflect the source description used throughout the permit. The emission point should be described as the No. 1 UAN Neutralizer Vent.
9. The applications Table 3 regulatory applicability tables for the Complex II Gasoline Storage Tank (Emission Point 26-75) was modified to reference LAC 33:III.H.3 instead of LAC 33:III.H.3.a.
10. Updates to the No. 1 Ammonia Plant Sulfuric Acid Receiving Tank (Source 12-65), the No. 2 Ammonia Plant Sulfuric Acid Receiving Tank (Source 8-67), the Nos. 3

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

- and 4 Ammonia Plants Sulfuric Acid Receiving Tank (Source 48-75), the No. 1 Urea Sulfuric Acid Receiving Tank (Source 56-75), the Complex II Effluent Pond Sulfuric Acid Tank (Source 1-78), and the No. 4 Urea Sulfuric Acid Receiving Tank (Source 18-95) emissions reflect the reconciliation of actual tank capacities. In addition, two existing tanks (the No. 2 Nitric Acid Sulfuric Acid Receiving Tank (Source 1-93) and the No. 2 Urea Sulfuric Acid Receiving Tank (Source 1-76)), which were not included in the original Title V permit application, were added to the renewal permit modification. The emissions from the Sulfuric Acid Day Tanks (Source 14-65) were reconciled to include the correct number of day tanks located at the facility. The emissions from these sources are negligible and the overall emissions of sulfuric acid from the facility have decreased as a result of these reconciliations (0.0004 tpy to <0.0001 tpy). There were no physical modifications being made to these sources.
11. PSD permit PSD-LA-594 was issued to CF Industries on April 29, 1996 to construct the No. 4 Urea Plant, the No. 3 Nitric Acid Plant, and the No. 2 Urea Ammonium Nitrate plant. Part of the original design and construction included two cooling towers, one for the No.3 Nitric Acid Plant and the second for the No. 4 Urea Plant. The changes required that BACT controls be reviewed for particulate emissions from these two sources, but that review was not previously performed. The renewal modification incorporated the results of that review from PSD Permit PSD-LA-594 (M-1). There were no physical modifications being made to these sources.
 12. The Regulatory Requirements Table 2 - Explanation for Exemption Status or Non-Applicability of a Source was updated to incorporate revisions to the facility wide Miscellaneous Organic Chemical Manufacturing (MON) NESHAP Subpart FFFF and to add the Boiler and Process Heater MACT, NESHAP Subpart DDDDD.
 13. The emissions of Carbon Monoxide for the No. 4 Urea Boiler (Emission Point 10-95) were updated to reflect more accurate values.
 14. The renewal modification incorporated applicable specific requirements for Compliance Assurance Monitoring (40 CFR 64) which is applicable at the first Part 70 operating permit renewal.
 15. The facility is located within the Baton Rouge non-attainment area and is therefore subject to LAC 33:III.Chapter 22, Control of Emissions of Nitrogen Oxides. The facility has nine emission sources that are subject to the regulation and has elected to operate under a Facility-wide Averaging Plan. The plan was approved on April 18, 2005. The associated requirements were included in the renewal.
 16. The facility added a 755 Hp NH₃ Complex 2 Emergency Generator.
 17. The renewal modification incorporated three insignificant existing diesel-fired emergency generators, three existing insignificant diesel-fired water pumps, two backup diesel fired air compressors and one existing natural gas-fired water pump. A new additional insignificant water intake pump was also included.

The minor modification for Permit No. 0180-00004-V3 made the following changes:

- Several Authorizations to Construct and Operate were incorporated.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

backup diesel fired air compressors and one existing natural gas-fired water pump. A new additional insignificant water intake pump was also included.

The minor modification for Permit No. 0180-00004-V3 made the following changes:

- Several Authorizations to Construct and Operate were incorporated.
 - Three ATC's authorized the installation of low methanol catalyst in the No.'s 2 through 4 Ammonia Plants.
 - One ATC installed a deNO_x catalyst in the No. 2 Nitric Acid Plant
- The facility was approved to implement an Energy Retrofit Project which allowed an increase in the daily production of the No. 3 & 4 Ammonia Plants up to 1710 tons per day.
- A new fire water pump was installed, with an associated insignificant activity diesel storage tank.
- The modification removed NESHPAP DDDDD, which was vacated.
- Several Maximum CO and NO_x hourly emission rates were reconciled.
- The facility decided to comply with the Subpart UU option from the MON (40 CFR 63 Subpart FFFF).
- Alternate Operating Scenarios were clarified and a few typographical changes made.
- EQT 0058 was previously limited to 739 tpy of NO_x for a permanent reduction as part of a PSD netting modification. The limitation for this source is now set at 694.27 tpy of NO_x, so that federally enforceable footnote was removed.

For this modification the facility is reconciling fugitive emissions based upon implementation of NESHPAP FFFF, based upon actual component counts. No change to the specific requirements will occur due to this reconciliation.

The facility will implement an Energy Retrofit Project of the No. 1 & 2 Ammonia Plants which will allow an increase in the daily production of the No. 1 & 2 Ammonia Plants up to 1620 tons per day. CF Industries has determined that the previously permitted changes from the energy retrofit project for the No. 3 & 4 Ammonia Plants will allow for the production to be increased from 1710 up to 1785 tpd. This will raise the total ammonia production to 6810 tpd.

CF industries considers the energy retrofit projects for all four ammonia plants to be one project. As such, the changes will increase the carbon monoxide emissions above the PSD threshold. (See PSD Permit PSD-LA-744)

CF Industries will perform a modification to the Nitric Acid Train No. 3 to allow for the production to increase to 500 M tpy, increasing the total facility production to 965.75 M tpy. As part of this modification, the ammonia calculations are being revised to reflect operational experience and to lower the permitted ammonia slip from the SCR to 12 ppm

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

from the previous 15 ppm, based upon the installation of the new Selective Catalytic Reduction (SCR) unit.

This project along with the ammonia production increases will allow UAN 2 production to be increased to 1,500,000 tpy.

Due to the various production increases, the startup and shutdown emissions associated with the Ammonia Plants 1, 2, 3 and 4 Hot Vents and Process Gas Vents can no longer be considered GCXVII activities as the emissions will now exceed 5 tpy.

Due to the various production increases, the startup and shutdown emissions associated with the Nitric Acid Train 3 can no longer be considered a GCXVII activity as the emissions will now exceed 5 tpy.

Several other minor typographical corrections were requested and incorporated in this modification.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	707.78	709.30	+1.52
SO ₂	11.47#	11.53	+0.06
NO _x	4212.11*	3879.97*	-332.14
CO	1578.34	1606.53	+28.19
VOC	228.81	261.24	+32.43

Non - VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Ammonia	3852.10**	3850.70**	-1.40
Nitric Acid	2.64	2.64	-
Chlorine	1.20	1.20	-
Sulfuric Acid	<0.001	<0.001	-

* Contains 103.78 tpy from alternate operating scenarios.

** Includes Startup and Shutdown emissions from 3-95 - No. 4 Urea Vent (X-101)

Total emissions will decrease to 11.33 tpy as low sulfur diesel fuel becomes mandatory for EQT 112, 113, 114 and 115.

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
2,2,4-Trimethylpentane	0.01	0.01	-

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Benzene	0.009	0.009	-
Ethyl benzene	0.001	0.001	-
Methanol	109.14	114.05	+4.91
n-Hexane	0.013	0.013	-
Toluene	0.01	0.01	-
Xylene	0.004	0.004	-
Polynuclear Aromatic Hydrocarbons	<0.001	<0.001	-
Formaldehyde	0.005	1.185	+1.18

Other VOC (TPY): 145.96

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), Compliance Assurance Monitoring (CAM – 40 CFR 64) and Prevention of Significant Deterioration. NESHAP does apply, effective May 10, 2008 for 40 CFR 63 Subpart FFFF, Miscellaneous Organic Chemical Manufacturing (MON). This modification adds a PSD BACT analysis for Carbon Monoxide for the Energy Retrofit Project.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The increase in Formaldehyde is a reconciliation and not an increase due to physical changes.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2009; and in the *The Donaldsonville Chief*, Donaldsonville, on <date>, 2009. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed reconciliation were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to remodel emissions.

Dispersion Model(s) Used: ISC-PRIME (NH₃) [March 3, 2000]

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard
Ammonia	8-hour	526* ug/m ³	640 ug/m ³

*Maximum off property concentration including all CF Industries sources.

VIII. General Condition XVII Activities

Emission Point/Identifier	DESCRIPTION	NOTES
7-72	No. 1 Urea UF-85 Storage Tank, 1.96 lbs/yr Formaldehyde, 0.01 lbs/yr Methanol	Emissions occur when the No. 1, No. 2 and No. 4 Urea plants are not operating. Once the process is off-line, some material remains in the tanks, resulting in breathing losses.
2-92	No. 2 Urea UF-85 Storage Tank, 4.45 lbs/yr Formaldehyde, 0.03 lbs/yr Methanol	
6-95	No. 4 Urea UF-85 Storage Tank, 1.96 lbs/yr Formaldehyde, 0.01 lbs/yr Methanol	
7-91	No. 3 Urea X-201 Vent, bypass of urea reactor and flash separator, 5 min/episode, 2 episodes/yr each, Ammonia 0.63 TPY and 0.96 TPY, respectively.	Emissions associated with bypass of reactor and flash separator, 3 hrs/yr.
1-95	No. 4 Urea Low Pressure Absorber Vent, 20 lbs/hr, Ammonia 0.24 TPY	Emissions of ammonia associated with venting urea process streams to scrubber during shutdowns, 24 hrs/yr.
7-95	No. 2 UAN AN Neutralizer/ UAN Mix Tank Vent, bypass condenser 30 min/startup, 6 startups/yr, PM ₁₀ 0.53 TPY, HNO ₃ 0.25 TPY.	Emissions associated with bypass of condenser, for testing recycle suitability of stream, 3 hrs/yr.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

IX. Insignificant Activities

Emission Point/ Identifier	DESCRIPTION	NOTES
NA	Lime Dust Unloading, used as water softener, unloaded below water level and stored as a slurry, Negligible emissions	Insignificant activity in accordance with LAC 33:III.501.B.5.D
D-1 D-2 D-3 NA D-5 D-6 D-7	Diesel Tank at Dock, 734 gals, 2.0 lbs/yr VOC EM Generator Diesel Tank, 588 gals, 2.2 lbs/yr VOC EM Generator Diesel Tank, 588 gals, 2.2 lbs/yr VOC Standby Raw Water Pump Diesel Tank, 1000 gals, 4.87 lbs/yr VOC Firewater Pump Diesel Tank, 1058 gals, 7.0 lbs/yr VOC (41-75) No.1 Urea Diesel Tank No. 637, 3,000 gals, 14.59lbs/yr VOC (46-75) Complex II Diesel Tank, 3,000 gals, 14.59 lbs/yr VOC No. 1/2 Ammonia Diesel Tank, 1,000 gals, 6.35 lbs/yr VOC No. 3/4 Ammonia Diesel Tank, 1,000 gals, 6.35 lbs/yr VOC 500 gallon diesel tank (for fire training area)	Multiple Diesel Storage Tanks, Fuel tanks for fire water pump, emergency generator and standby raw water pump fuel tanks Insignificant activity in accordance with LAC 33:III.501.B.5.A.3
NA	Dry product handling conveyer belt system, dry urea product transport, and covered, Negligible emissions.	Insignificant activity in accordance with LAC 33:III.501.B.5.D
NA	Emergency Generators: NH ₃ No. 1 Emergency Generator, NH ₃ No. 2 Emergency Generator and the Urea No. 4 Emergency Generator	Insignificant activity in accordance with LAC 33:III.501.B.5.D
NA	Diesel and Natural Gas Pumps: Water Intake Pump, NH ₃ Complex 1 Fire Water Pump, NH ₃ Complex 2 Fire Water Pump No. 1 and the NH ₃ Complex 2 Fire Water Pump No. 2	Insignificant activity in accordance with LAC 33:III.501.B.5.D
NA	Caustic storage tanks.	Insignificant activity in accordance with LAC 33:III.501.B.5.B.40

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
 AGENCY INTEREST NO.: 2416
 CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 ▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56	59
UNF 1	Plant Wide		1	1	1	1								1		1	1	1	1	1
ARE 2	16-95 - Urea Warehouse Storage / Loading No. 2								1											
ARE 3	54-75 - South Pond																			
ARE 4	55-75 - West Pond																			
ARE 5	9-72 - No. 1 Urea Warehouse Storage/Loading							1												
EQT 10	1-65 - No. 1 Ammonia Plant Reformer		1		1	1	3							1		1				
EQT 11	1-67 - No. 2 Ammonia Plant Reformer		1		1	1	3							1		1				
EQT 12	1-72 - No. 1 Urea Boiler				1	1	3							1		1				
EQT 13	1-75 - UAN Storage Tank #801							3						1		1				
EQT 14	1-76 - No. 2 Urea Sulfuric Acid Receiving Tank							3						1		1				
EQT 15	1-78 - Complex II Effluent Pond Sulfuric Acid Tank								3											
EQT 16	1-89 - No. 2 Urea Water Separator Drum (D-124)									3										
EQT 17	1-91 - No. 3 Urea Boiler				1	1	3							1						
EQT 18	1-93 - No. 2 Nitric Acid Sulfuric Acid Receiving Tank							3						3		3				
EQT 19	1-95 - No. 4 Urea Low Pressure Absorber Vent																			1
EQT 20	10-91 - No. 2 Nitric Acid Cooling Tower (CT-401)									1										
EQT 21	10-95 - No. 4 Urea Boiler										1	1	3				1			1
EQT 22	11-72 - No. 1 Urea Process Water Tank #104												3							1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56
EQT 23	12-65 - No. 1 Ammonia Plant Sulfuric Acid Receiving Tank							3									1		
EQT 24	12-72 - No. 1 Urea Process Water Tank #106							3									1		
EQT 25	12-75 - No. 2 Urea Boiler A					1	1	3							1		1		
EQT 26	13-72 - No. 1 Urea Process Water Tank #105							3									1		
EQT 27	13-75 - No. 2 Urea Boiler B					1	1	3							1				
EQT 28	14-72 - No. 1 Urea Cooling Tower (CT-301)					1	1	3							1				
EQT 29	14-75 - No. 2 Urea High Pressure Scrubber							1								1			
EQT 30	14-95 - Urea Loading Barge Dock					1													
EQT 31	15-65 - Complex I Ammonia Flare				1	3	3							3			1		
EQT 32	15-75 - No. 2 Urea Granulator Scrubber A					1													
EQT 33	15-95 - UAN Storage Tank #817							3										1	
EQT 34	16-65 - Complex I Demineralization Tank							3											
EQT 35	16-75 - No. 2 Urea Granulator Scrubber B							1											1
EQT 36	17-65 - No. 1 Ammonia Cooling Tower (CT-2201U)							1											
EQT 37	17-75 - No. 2 Urea Granulator Scrubber C							1											1
EQT 38	17-95 - No. 4 Urea/No. 2 UAN Ammonia Flare							1	3	3				3					
EQT 39	18-65 - No. 1 Ammonia Alkanol Amine Tank										3								
EQT 40	18-75 - No. 2 Urea Granulator Scrubber D									1								1	
EQT 41	18-95 - No. 4 Urea Sulfuric Acid Receiving Tank										3							1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:II. Chapter																	
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56
EQT 42	19-95 - No. 4 Urea Relief Valve Separator (D-102)																	1	
EQT 43	2-72 - No. 1 Urea High Pressure Scrubber																	1	
EQT 44	2-75 - UAN Storage Tank #802																	1	
EQT 45	2-92 - No. 2 Urea UF-85 Storage Tank																	1	
EQT 46	2-95 - No. 4 Urea Granulator																	1	
EQT 47	20-75 - No. 1 Nitric Acid Plant Absorber Stack																	1	
EQT 48	20-95 - No. 3 Nitric Acid Cooling Tower (CT-301)																	3	
EQT 49	21-95 - No. 4 Urea Cooling Tower (CT-301)																		
EQT 50	22-75 - Complex II Ammonia Flare																		
EQT 51	25-75 - No. 1 Nitric Acid Plant Tank																		
EQT 52	26-75 - Complex II Gasoline Storage Tank																		
EQT 53	28-75 - UAN Storage Tank #804																		
EQT 54	29-75 - UAN Storage Tank #805																		
EQT 55	3-65 - No. 1 Ammonia Plant Start-up Heater																		
EQT 56	3-67 - No. 2 Ammonia Plant Start-up Heater																		
EQT 57	3-72 - No. 1 Urea Granulator Scrubber "A"																		1
EQT 58	3-75 - No. 3 Ammonia Plant Reformer																	1	1
EQT 59	3-92 - Complex II Pipeline Flare																	3	
EQT 60	30-75 - Ammonia/UAN Barge Loading (Liquid Products Dock)																	3	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. **Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III Chapter																		
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56	59
EQT 61	31-75 - Pipeline Injection Station No. 2																			
EQT 62	36-75 - No. 2 Urea Process Water Tank # 104																			
EQT 63	37-75 - No. 2 Urea Process Water Tank #105																			
EQT 64	38-75 - No. 2 Urea Process Water Tank #106																			
EQT 65	4-65 - Complex I Ammonia Flares																			
EQT 66	4-72 - No. 1 Urea Granulator Scrubber "B"																			
EQT 67	4-91 - No. 2 Nitric Acid Plant Absorber Stack																			
EQT 68	4-95 - No. 3 Nitric Acid Plant Absorber Stack																			
EQT 69	44-75 - No. 1 Nitric Acid Drip Acid Tank (D503)																			
EQT 70	45-75 - No. 1 Nitric Acid Process Water Tank																			
EQT 71	47-75 - Complex II Urea/UAN Ammonia Flare																			
EQT 72	48-75 - No. 3 & 4 Ammonia Plants Sulfuric Acid Receiving Tank																			
EQT 73	5-67 - No. 1 Pipeline Injection Station																			
EQT 74	5-72 - No. 1 Urea Granulator Scrubber "C"																			
EQT 75	5-75 - No. 3 Ammonia Plant Start-up Heater																			
EQT 76	5-91 - No. 2 Nitric Acid Plant Tank																			
EQT 77	5-95 - No. 3 Nitric Acid Plant Tank																			
EQT 78	51-75 - No. 1 Nitric Acid Reclaim Tank																			
EQT 79	53-75 - Complex II Demineralization Tank																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56	59
EQT 80	56-75 - No. 1 Urea Sulfuric Acid Receiving Tank							3												
EQT 81	58-75 - No. 3 Ammonia Cooling Tower (CT-2201UA)							1												
EQT 82	59-75 - No. 4 Ammonia Cooling Tower (CT-2201UB)							1												
EQT 83	6-75 - No. 4 Ammonia Plant Reformer	1		1	1	3								1						
EQT 84	6-91 - UAN Storage Tank #816						3							1						
EQT 85	6-95 - No. 4 Urea UF-85 Storage Tank						3							1						
EQT 86	60-75 - No. 1 Nitric Acid Cooling Tower (CT-301)					1								1						
EQT 87	61-75 - No. 2 Urea Cooling Tower (CT-301)					1								1						
EQT 88	62-75 - No. 3 Ammonia Alkanol Amine Tank												3							
EQT 89	63-75 - No. 4 Ammonia Alkanol Amine Tank												3							
EQT 90	7-65 - Ammonia Barge/Ship Loading												3				1			
EQT 91	7-72 - No. 1 Urea UF-85 Storage Tank												3				1			
EQT 93	8-67 - No. 2 Ammonia Plant Sulfuric Acid Receiving Tank												3						1	
EQT 94	8-72 - Urea Barge/Ship Loading												1							
EQT 95	8-75 - No. 4 Ammonia Plant Start-up Heater												1	1	3					
EQT 96	8-91 - No. 2 Nitric Acid Clean Condensate Tank																		1	
EQT 97	9-67 - No. 2 Ammonia Cooling Tower (CT-2201U)														1					
EQT 98	9-95 - No. 3 Nitric Acid Clean Condensate Tank																		1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56
EQT 99	3-72a - TK-101 Urea No. 1																	1	
EQT 100	3-72b - TK-102 Urea No. 1																	1	
EQT 101	3-72c - TK-108 Urea No. 1																	1	
EQT 102	17-75a - TK-101 Urea No. 2																	1	
EQT 103	17-75b - TK-102 Urea No. 2																	1	
EQT 104	17-75c - TK-108 Urea No. 2																	1	
EQT 105	2-91a - UAN Mix Tank																	1	
EQT 106	2-91b - Urea Solution Tank																	1	
EQT 107	2-91c - No. 1 UAN Clean Condensate Tank																	1	
EQT 108	3-95a - Urea No. 4 Process Condensate Tank																	1	
EQT 109	3-95b - Urea No. 2 Surge Tank TK-101																	1	
EQT 110	7-95a - UAN Mix Tank																	1	
EQT 111	10-72a - TK-109 Sump w/Lid Urea No. 1																	1	
EQT 112	1-06 - NH ₃ Complex 2 Emergency Generator																	1	
EQT 113	1-07 - Air Compressor, Ammonia 1 and 2																	1	
EQT 114	2-07 - Air Compressor, Ammonia 3 and 4																	1	
EQT 115	1-08 -Fire Water Pump																	1	
FUG 1	10-72 - No. 1 Urea Plant Fugitives																	1	
FUG 2	11-95 - No. 4 Urea Plant Fugitives																	1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56
FUG 3	12-95 - No. 3 Nitric Acid Plant /No. 2 UAN Fugitives															3	1		
FUG 4	13-65 - Chlorine System Fugitives																	1	
FUG 5	27-75 - Complex II Ammonia/UAN Railcar Storage and Loading																	1	
FUG 6	3-91 - No. 3 Urea /No. 1 UAN Fugitives																	1	
FUG 7	32-75 - No. 3 Ammonia Plant Fugitives																	1	
FUG 8	33-75 - No. 4 Ammonia Plant Fugitives																	1	
FUG 9	34-75 - No. 2 Urea Plant Fugitives																	1	
FUG 10	35-75 - No. 1 Nitric Acid Plant Fugitives																	3	
FUG 11	52-75 - No. 3 & 4 Ammonia Plant Methanol Fugitives																	1	
FUG 12	6-67 - No. 2 Ammonia Plant Fugitives																	1	
FUG 13	9-65 - No. 1 Ammonia Plant Fugitives																	1	
FUG 14	9-91 - No. 2 Nitric Acid Plant Fugitives																	3	
FUG 15	8-65 - Complex I Ammonia Storage & Railcar Loading																	1	
RLP 8	10-65 - No. 1 Ammonia Plant Process Gas Vent																	3	
RLP 9	2-65 - No. 1 Ammonia Plant Hot Vent																	3	
RLP 10	2-67 - No. 2 Ammonia Plant Hot Vent																	3	
RLP 11	2-91 - No. 1 UAN Neutralizer Vent																	1	
RLP 12	21-75 - No. 2 Urea Vent X-101																	1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter																		
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56	59
RLP 13	23-75 - No. 3 Ammonia Plant Carbon Dioxide Vent	1												1					1	
RLP 14	24-75 - No. 4 Ammonia Plant Carbon Dioxide Vent	1												1					1	
RLP 15	3-95 - No. 4 Urea Vent (X-101)																		1	
RLP 16	39-75 - No. 3 Ammonia Plant Process Gas Vent													3						
RLP 17	4-67 - No. 2 Ammonia Plant Carbon Dioxide Vent	1												1					1	
RLP 18	4-75 - No. 3 Ammonia Plant Hot Vent													3						
RLP 19	40-75 - No. 4 Ammonia Plant Process Gas Vent													3						
RLP 20	5-65 - No. 1 Ammonia Plant Carbon Dioxide Vent	1												1					1	
RLP 21	57-75 - Laboratory Hood Vents																		1	
RLP 22	6-72 - No. 1 Urea-Vent X-101																		1	
RLP 23	7-67 - No. 2 Ammonia Plant Process Gas Vent													3						
RLP 24	7-75 - No. 4 Ammonia Plant Hot Vent													3						
RLP 25	7-91 - No. 3 Urea X-201 Vent																		1	
RLP 26	7-95 - No. 2 UAN Neutralizer/ Mix Tank Vent													1					1	
SCN 6	Ammonia Plants Carbon Dioxide Vents																	1		
GRP 6	14-65 - Sulfuric Acid Day Tanks																		1	
GRP 7	Cap (14-75/21-75) - Cap (No. 2 Urea High Pressure Scrubber & No. 2 Urea Vent X-101)													3					1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter																		
		5▲	509	9	11	13	15	2103	2107	2108	2113	2115	2131	22	2307	29*	51*	53	56	59
GRP 8	Cap (2-72/6-72) - Cap (No. 1 Urea High Pressure Scrubber & No. 1 Urea Vent (X-101))																			
SCN 1	Alternate Scenario for 1-65 - No. 1 Ammonia Plant Reformer																			
SCN 2	Alternate Scenario for 1-67 - No. 2 Ammonia Plant Reformer																			
SCN 3	Alternate Scenario for 3-75 - No. 3 Ammonia Plant Reformer																			
SCN 4	Alternate Scenario for 6-75 - No. 4 Ammonia Plant Reformer																			
SCN 5	Alternate Scenario for 3-95 - No. 4 Urea Vent (X-101)																			

- * The regulations indicated above are State Only regulations
- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III:501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source, but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
 Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

**AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.**

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61										40 CFR					
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68		
UNF 1	Plant Wide	1								1	1	1	2	1	3	3	3	3	1	1	3			1			
ARE 2	16-95 - Urea Warehouse Storage / Loading No. 2																										
ARE 3	54-75 - South Pond																										
ARE 4	55-75 - West Pond																										
ARE 5	9-72 - No. 1 Urea Warehouse Storage/Loading																										
EQT 10	1-65 - No. 1 Ammonia Plant Reformer																										
EQT 11	1-67 - No. 2 Ammonia Plant Reformer																										
EQT 12	1-72 - No. 1 Urea Boiler									3	3																
EQT 13	1-75 - UAN Storage Tank #801																										
EQT 14	1-76 - No. 2 Urea Sulfuric Acid Receiving Tank																										
EQT 15	1-78 - Complex II Effluent Pond Sulfuric Acid Tank																										
EQT 16	1-89 - No. 2 Urea Water Separator Drum (D-124)																										
EQT 17	1-91 - No. 3 Urea Boiler									1	3																
EQT 18	1-93 - No. 2 Nitric Acid Sulfuric Acid Receiving Tank																										
EQT 19	1-95 - No. 4 Urea Low Pressure Absorber Vent																										
EQT 20	10-91 - No. 2 Nitric Acid Cooling Tower (CT-401)																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS								40 CFR 61								40 CFR 63 NESHAP								40 CFR	
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68		
EQT 21	10-95 - No. 4 Urea Boiler			1	3																				Vacated		
EQT 22	11-72 - No. 1 Urea Process Water Tank #104																										
EQT 23	12-65 - No. 1 Ammonia Plant Sulfuric Acid Receiving Tank																										
EQT 24	12-72 - No. 1 Urea Process Water Tank #106																										
EQT 25	12-75 - No. 2 Urea Boiler A			3	3																					Vacated	
EQT 26	13-72 - No. 1 Urea Process Water Tank #105																									Vacated	
EQT 27	13-75 - No. 2 Urea Boiler B			3	3																						
EQT 28	14-72 - No. 1 Urea Cooling Tower (CT-301)																										
EQT 29	14-75 - No. 2 Urea High Pressure Scrubber																										
EQT 30	14-95 - Urea Loading Barge Dock																									3	
EQT 31	15-65 - Complex I Ammonia Flare																										
EQT 32	15-75 - No. 2 Urea Granulator Scrubber A																									1	
EQT 33	15-95 - UAN Storage Tank #817																										
EQT 34	16-65 - Complex I Demineralization Tank																										
EQT 35	16-75 - No. 2 Urea Granulator Scrubber B																									1	
EQT 36	17-65 - No. 1 Ammonia Cooling Tower (CT-2201U)																									3	
EQT 37	17-75 - No. 2 Urea Granulator Scrubber C																									1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR	
		A	D _b	D _c	K	K _a	K _b	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68		
EQT 38	17-95 - No. 4 Urea/ No. 2 UAN Ammonia Flare																										
EQT 39	18-65 - No. 1 Ammonia Alkanol Amine Tank																										
EQT 40	18-75 - No. 2 Urea Granulator Scrubber D																										1
EQT 41	18-95 - No. 4 Urea Sulfuric Acid Receiving Tank																										
EQT 42	19-95 - No. 4 Urea Relief Valve Separator (D-102)																										
EQT 43	2-72 - No. 1 Urea High Pressure Scrubber																										
EQT 44	2-75 - UAN Storage Tank #802																										
EQT 45	2-92 - No. 2 Urea UF-85 Storage Tank																										3
EQT 46	2-95 - No. 4 Urea Granulator																										1
EQT 47	20-75 - No. 1 Nitric Acid Plant Absorber Stack																										
EQT 48	20-95 - No. 3 Nitric Acid Cooling Tower (CT-301)																										3
EQT 49	21-95 - No. 4 Urea Cooling Tower (CT-301)																										3
EQT 50	22-75 - Complex II Ammonia Flare																										
EQT 51	25-75 - No. 1 Nitric Acid Plant Tank																										
EQT 52	26-75 - Complex II Gasoline Storage Tank																										
EQT 53	28-75 - UAN Storage Tank #804																										3
EQT 54	29-75 - UAN Storage Tank #805																										3

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 64 68	
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	DDDD	40 CFR 64 68			
EQT 55	3-65 - No. 1 Ammonia Plant Start-up Heater																										
EQT 56	3-67 - No. 2 Ammonia Plant Start-up Heater																										
EQT 57	3-72 - No. 1 Urea Granulator Scrubber "A"																										
EQT 58	3-75 - No. 3 Ammonia Plant Reformer																										
EQT 59	3-92 - Complex II Pipeline Flare																										
EQT 60	30-75 - Ammonia/UAN Barge Loading (Liquid Products Dock)																										
EQT 61	31-75 - Pipeline Injection Station No. 2																										
EQT 62	36-75 - No. 2 Urea Process Water Tank # 104																										
EQT 63	37-75 - No. 2 Urea Process Water Tank #105																										
EQT 64	38-75 - No. 2 Urea Process Water Tank #106																										
EQT 65	4-65 - Complex I Ammonia Flares																										
EQT 66	4-72 - No. 1 Urea Granulator Scrubber "B"																										
EQT 67	4-91 - No. 2 Nitric Acid Plant Absorber Stack																										
EQT 68	4-95 - No. 3 Nitric Acid Plant Absorber Stack																										
EQT 69	44-75 - No. 1 Nitric Acid Drip Acid Tank (DS03)																										
EQT 70	45-75 - No. 1 Nitric Acid Process Water Tank																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 64 68	
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68		
EQT 71	47-75 - Complex II Urea/UAN Ammonia Flare																										
EQT 72	48-75 - No. 3 & 4 Ammonia Plants Sulfuric Acid Receiving Tank																										
EQT 73	5-67 - No. 1 Pipeline Injection Station																										
EQT 74	5-72 - No. 1 Urea Granulator Scrubber "C"																										1
EQT 75	5-75 - No. 3 Ammonia Plant Start-up Heater																										Vacated
EQT 76	5-91 - No. 2 Nitric Acid Plant Tank																										
EQT 77	5-95 - No. 3 Nitric Acid Plant Tank																										
EQT 78	51-75 - No. 1 Nitric Acid Reclaim Tank																										
EQT 79	53-75 - Complex II Demineralization Tank																										
EQT 80	56-75 - No. 1 Urea Sulfuric Acid Receiving Tank																										
EQT 81	58-75 - No. 3 Ammonia Cooling Tower (CT-2201UA)																										
EQT 82	59-75 - No. 4 Ammonia Cooling Tower (CT-2201UB)																										3
EQT 83	6-75 - No. 4 Ammonia Plant Reformer																										
EQT 84	6-91 - UAN Storage Tank #816																										
EQT 85	6-95 - No. 4 Urea UF-85 Storage Tank																										3
EQT 86	60-75 - No. 1 Nitric Acid Cooling Tower (CT-301)																										3

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR	
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68		
EQT 87	61-75 - No. 2 Urea Cooling Tower (CT-301)																										
EQT 88	62-75 - No. 3 Ammonia Alkanol Amine Tank																										
EQT 89	63-75 - No. 4 Ammonia Alkanol Amine Tank																										
EQT 90	7-65 - Ammonia Barge/Ship Loading																										
EQT 91	7-72 - No. 1 Urea UF-85 Storage Tank																										
EQT 93	8-67 - No. 2 Ammonia Plant Sulfuric Acid Receiving Tank																										
EQT 94	8-72 - Urea Barge/Ship Loading																										
EQT 95	8-75 - No. 4 Ammonia Plant Start-up Heater																										
EQT 96	8-91 - No. 2 Nitric Acid Clean Condensate Tank																										
EQT 97	9-67 - No. 2 Ammonia Cooling Tower (CT-2201U)																										
EQT 98	9-95 - No. 3 Nitric Acid Clean Condensate Tank																										
EQT 99	3-72a - TK-101 Urea No. 1																										
EQT 100	3-72b - TK-102 Urea No. 1																										
EQT 101	3-72c - TK-108 Urea No. 1																										
EQT 102	17-75a - TK-101 Urea No. 2																										
EQT 103	17-75b - TK-102 Urea No. 2																										
EQT 104	17-75c - TK-108 Urea No. 2																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.
DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 63 NESHAP												40 CFR 64 68
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68	
EQT 105	2-91a - UAN Mix Tank																									3
EQT 106	2-91b - Urea Solution Tank																									3
EQT 107	2-91c - No. 1 UAN Clean Condensate Tank																									3
EQT 108	3-95a - Urea No. 4 Process Condensate Tank																									3
EQT 109	3-95b - Urea No. 2 Surge Tank TK-101																									3
EQT 110	7-95a - UAN Mix Tank																									3
EQT 111	10-72a - TK-109 Sump w/Lid Urea No. 1																									3
EQT 112	1-06 - NH3 Complex 2 Emergency Generator	1																								1
EQT 113	1-07 - Air Compressor, Ammonia 1 and 2	1																								1
EQT 114	2-07 - Air Compressor, Ammonia 3 and 4	1																								1
EQT 115	1-08 - Fire Water Pump	1																								1
FUG 1	10-72 - No. 1 Urea Plant Fugitives																									3
FUG 2	11-95 - No. 4 Urea Plant Fugitives																									1
FUG 3	12-95 - No. 3 Nitric Acid Plant /No. 2 UAN Fugitives																									1
FUG 4	13-65 - Chlorine System Fugitives																									1
FUG 5	27-75 - Complex II Ammonia/UAN Railcar Storage and Loading																									1
FUG 6	3-91 - No. 3 Urea /No. 1 UAN Fugitives																									2

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR		
		A	D _b	D _c	K	K _a	K _b	G	VV	III	A	M	F	F	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68		
FUG 7	32-75 - No. 3 Ammonia Plant Fugitives																											
FUG 8	33-75 - No. 4 Ammonia Plant Fugitives																											
FUG 9	34-75 - No. 2 Urea Plant Fugitives																											
FUG 10	35-75 - No. 1 Nitric Acid Plant Fugitives																											
FUG 11	52-75 - No. 3 & 4 Ammonia Plant Methanol Fugitives																											
FUG 12	6-67 - No. 2 Ammonia Plant Fugitives																											
FUG 13	9-65 - No. 1 Ammonia Plant Fugitives																											
FUG 14	9-91 - No. 2 Nitric Acid Plant Fugitives																											
FUG 15	8-65 - Complex I Ammonia Storage & Railcar Loading																											
RLP 8	10-65 - No. 1 Ammonia Plant Process Gas Vent																											
RLP 9	2-65 - No. 1 Ammonia Plant Hot Vent																											
RLP 10	2-67 - No. 2 Ammonia Plant Hot Vent																											
RLP 11	2-91 - No. 1 UAN Neutralizer Vent																											
RLP 12	21-75 - No. 2 Urea Vent X-101																											
RLP 13	23-75 - No. 3 Ammonia Plant Carbon Dioxide Vent																											
RLP 14	24-75 - No. 4 Ammonia Plant Carbon Dioxide Vent																											
RLP 15	3-95 - No. 4 Urea Vent (X-101)																											

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR	
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDDD	64	68		
RLP 16	39-75 - No. 3 Ammonia Plant Process Gas Vent																										
RLP 17	4-67 - No. 2 Ammonia Plant Carbon Dioxide Vent																										
RLP 18	4-75 - No. 3 Ammonia Plant Hot Vent																										1
RLP 19	40-75 - No. 4 Ammonia Plant Process Gas Vent																										
RLP 20	5-65 - No. 1 Ammonia Plant Carbon Dioxide Vent																										
RLP 21	57-75 - Laboratory Hood Vents																										
RLP 22	6-72 - No. 1 Urea Vent X-101																										
RLP 23	7-67 - No. 2 Ammonia Plant Process Gas Vent																										
RLP 24	7-75 - No. 4 Ammonia Plant Hot Vent																										1
RLP 25	7-91 - No. 3 Urea X-201 Vent																										
RLP 26	7-95 - No. 2 UAN Neutralizer/ Mix Tank Vent																										
SCN 6	Ammonia Plants Carbon Dioxide Vents																										
GRP 6	14-65 - Sulfuric Acid Day Tanks																										3
GRP 7	Cap (14-75/21-75) - Cap (No. 2 Urea High Pressure Scrubber and No. 2 Urea Vent X-101)																										
GRP 8	Cap (2-72/6-72) - Cap (No. 1 Urea High Pressure Scrubber and No. 1 Urea Vent X-101)																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR
		A	Db	Dc	K	Ka	Kb	G	VV	III	A	M	FF	A	F	G	H	Q	Y	EEEE	FFFF	ZZZZ	DDDD	64	68	
SCN 1	Alternate Scenario for 1-65 - No. 1 Ammonia Plant Reformer																									
SCN 2	Alternate Scenario for 1-67 - No. 2 Ammonia Plant Reformer																									
SCN 3	Alternate Scenario for 3-75 - No. 3 Ammonia Plant Reformer																									
SCN 4	Alternate Scenario for 6-75 - No. 4 Ammonia Plant Reformer																									
SCN 5	Alternate Scenario for 3-95 - No. 4 Urea Vent (X-101)																									

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source, but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
Facility	NESHAPS Subpart M-National Emission Standard for Asbestos [40 CFR 61.145]	Shall comply with the regulations under this Subpart if triggered. Applies to owner or operator of a facility being demolished or renovated.
	NESHAPS Subpart FF-National Emission Standards for Benzene Waste Operations [40 CFR 61.340 and §61.357(a)]	EXEMPT. Submit initial report detailing no benzene on site in waste products, byproducts, or intermediates. CF submitted letter to LDEQ on July 14, 1994
	NESHAP for Source Categories Subpart A- General Provisions [40 CFR 63.1 through 15]	DOES APPLY. Units at the Donaldsonville Nitrogen Complex meet the applicability criteria for this Subpart. See compliance date of Subpart FFFF.
	NESHAP for Source Categories, Subparts F, G, & H-SOCMI HON [40 CFR 63.100 through §63.182]	DOES NOT APPLY. Units at the Donaldsonville Nitrogen Complex do not meet the applicability criteria for chemical manufacturing process units specified in §63.100 (b)(1) & (b)(2).
	NESHAP for Miscellaneous Organic Chemical Manufacturing, Subpart FFFF (MON) [40 CFR 63.2430 through §63.2550]	Comply with applicable requirements of NESHAP Subpart FFFF. Compliance date is May 10, 2008.
	NESHAP for Organic Liquids Distribution (Non-Gasoline), Subpart EEEE (OLD) [40 CFR 63.2330 through §63.2406]	DOES NOT APPLY. Storage tanks and equipment leak components are affected sources in NESHAP Subpart FFFF and thus, are exempt from NESHAP EEEE per §63.233.8(c)(1). Facility transfer operations do not meet definition of transfer rack in §63.2406.
	NESHAP for Stationary Reciprocating Internal Combustion Engines, Subpart ZZZZ (RICE) [40 CFR 63.6580 through §63.6675]	EXEMPT. Facility operates several internal combustion engines greater than 500 bhp, but they are existing emergency use. EQT 112, 1-06 – NH3 Complex 2 Emergency Generator and the (Insignificant Activity) Water Intake Pump have to submit the initial notification per 40 CFR 63.6645(c) and (d)
	Control of Emissions of Nitrogen Oxides [LAC 33:III.2201]	Comply with applicable requirements of LAC 33:III.2201. Compliance date was May 1, 2005. Facility wide averaging plan was approved on April 18, 2005.
1-65: No. 1 Ammonia Plant Reformer Process Condensate Steam Stripper Noncondensibles	Emission Limits [LAC 33:III.1311.B] Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. Gaseous fuel burning equipment. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111]. DOES NOT APPLY. Reformer burns natural gas and process gas. It introduces no solid materials which may cause emissions of particulates.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C]	Source emits methanol and ammonia, Class III toxic air pollutants (TAPs). MACT is not required. Overhead from the process condensate steam stripper is condensed prior to venting to the reformer stack. Reduces potential methanol and ammonia emissions by >99%.
STATE-ONLY		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
2-65: No. 1 Ammonia Plant Hot Vent	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials that may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials which may cause emissions of particulates. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas. Source used for startups and shutdowns. Source is controlled by a flare during operation.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
3-65: No. 1 Ammonia Plant Start-up Heater	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	DOES NOT APPLY. Flare. Source is a control device for Complex I storage area.
	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas & process offgas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
5-65: No. 1 Ammonia Plant Carbon Dioxide Vent	Control Emissions of Organic Compounds (LAC 33:III.2115)	EXEMPT. The concentration of VOCs in the gas stream is <3000 ppmv. (LAC 33:III.2115.H.1.d) Based on memo by Louis Frey of CF Industries to Mike McDaniel of LDEQ dated 9/16/91

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.
DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
5-65: No. 1 Ammonia Plant Carbon Dioxide Vent (Cont.)	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Emissions to be reported in facility wide TEDI report. Ammonia and methanol
7-65: Ammonia Barge/Ship Loading Operations	NESHAP for Source Categories Subpart Y- National Emission Standards for Marine Tank Vessel Loading Operations [40 CFR 63.560(c)]	DOES NOT APPLY. Barge loading operations do not meet the definition of <i>affected source</i> in §63.561. Source emits no HAPs.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia
8-65: Complex I - Ammonia Storage & Tankcar Loading	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C]	Sources emit Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia. Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.
9-65: No. 1 Ammonia Plant Fugitives	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials, which may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream from hot vent is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
12-65: No. 1 Ammonia Plant Sulfuric Acid Receiving Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1965. Tank capacity is 5,235 gals.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.
	Comprehensive Toxic Air Pollutant Emission Control Program – MACT [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Sulfuric acid

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
13-65: Chlorine System Fugitives	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Chlorine Fugitive emissions of chlorine from cooling tower chlorination are controlled by inspection of equipment for proper operation during normal plant rounds
14-65: Sulfuric Acid Day Tanks	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Do not store a VOC liquid. Tanks constructed in 1965. Tank capacities are <10,000 gals.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Do not store a VOC.
	Comprehensive Toxic Air Pollutant Emission Control Program - MACT [LAC 33:III.5109.A] STATE-ONLY	Sources emit a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Sulfuric acid
15-65: Complex 1 Ammonia Flare	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials which may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
16-65: Complex 1 Demineralization Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1965.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.
17-65: No. 1 Ammonia Cooling Tower (CT-2201U)	NESHAP for Source Categories Subpart Q- Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.402]	DOES NOT APPLY. No water treatment programs containing chromium based water treatment chemicals in used at the IPCT.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
18-65: No. 1 Ammonia Alkanol Amine Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank constructed in 1965 and has not been constructed, reconstructed, or modified after July 23, 1984.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Vapor pressure of the stored liquid is <1.5 psia.
1-67: No. 2 Ammonia Plant Reformer	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. Gaseous fuel burning equipment. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. Reformer burns natural gas and process gas. It introduces no solid materials that may cause emissions of particulates. Combusts gaseous fuels only.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits methanol and ammonia, Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Overhead from the process condensate steam stripper is condensed prior to venting to the reformer stack. Reduces potential methanol and ammonia emissions by ≥99%.
2-67: No. 2 Ammonia Plant Hot Vent	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials that may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
3-67: No. 2 Ammonia Plant Start-up Heater	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
4-67: No. 1 Ammonia Plant Carbon Dioxide Vent	Control Emissions of Organic Compounds (LAC 33:III.2115)	EXEMPT. The concentration of VOCs in the gas stream is <3000 ppmv. (LAC 33:III.2115.H.1.d) Based on memo by Louis Frey of CF Industries to Mike McDaniel of LDEQ dated 9/16/91.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
4-67: No. 1 Ammonia Plant CO2 Vent (Cont.)	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia and methanol
5-67: No. 1 Pipeline Injection Station	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Sources emit Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.
6-67: No. 2 Ammonia Plant Fugitives	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials which may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
7-67: No. 2 Ammonia Plant Process Gas Vent	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter. Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream from hot vent is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
8-67: No. 2 Ammonia Plant Sulfuric Acid Receiving Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1967. Tank capacity is 5,235 gals.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.
	Comprehensive Toxic Air Pollutant Emission Control Program - MACT [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Sulfuric Acid
9-67: No. 2 Ammonia Cooling Tower (CT-2201U)	NESHAP for Source Categories Subpart Q- Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.402]	DOES NOT APPLY. No water treatment programs containing chromium based water treatment chemicals in used at the IPCT.
1-72: No. 1 Urea Boiler	NSPS Subpart D- Fossil-Fuel Fired Steam Generators for Which Construction is Commenced After August 17, 1971. [40 CFR 60.40(a)(1)]	DOES NOT APPLY. Heat input rate <250 MM BTU/hr.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416

CF. INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
1-72: No. 1 Urea Boiler (Cont.)	NSPS Subpart Da- Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978. [40 CFR 60.40a(a)] NSPS Subpart Db- Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b(a)] NSPS Subpart Dc- Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c(a)] Emission Standards for Sulfur Dioxide, Emission Limitations [LAC 33:III.1503.C]	DOES NOT APPLY. Not an electric utility steam generating unit. Heat input rate >250 MM BTU/hr. DOES NOT APPLY. Has not been constructed, reconstructed, or modified after June 19, 1984. Last construction or modification in 1972. DOES NOT APPLY. Has not been constructed, reconstructed, or modified after June 9, 1989. DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
2-72: No. 1 Urea High Pressure Scrubber	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia.
3-72: No. 1 Urea Granulator Scrubber A, TK-101, 102, & 108 Urea No. 1 4-72: No. 1 Urea Granulator Scrubber B, and 5-72: No. 1 Urea Granulator Scrubber C	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia and Methanol. Source is a wet scrubber which reduces emissions of ammonia by ≥98%. Ammonia. TK-108, Urea No. 1, is equipped with water sprays that reduce emissions of ammonia by approximately 58%.
6-72: No. 1 Urea Vent X-101	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia. Source is controlled by a wet scrubber which reduces emissions of ammonia by ≥98%.
7-72: No. 1 Urea UF-85 Storage Tank	NSPS Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110(a)] NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110(a)]	DOES NOT APPLY. Tank does not store petroleum liquids. DOES NOT APPLY. Tank does not store petroleum liquids.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Notes
7-72: No. 1 Urea UF-85 Storage Tank (cont.)	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)] Compliance Assurance Monitoring (CAM) [40 CFR 64]	DOES NOT APPLY. Tank constructed in 1972 and has not been constructed, reconstructed, or modified after July 23, 1984. UF-85 additive contains formaldehyde. Tank constructed in 1972.
8-72: Urea Barge/Ship Loading	Storage of Volatile Organic Compound [LAC 33:III.2103.A] NESHAP for Source Categories Subpart Y- National Emission Standards for Marine Tank Vessel Loading Operations [40 CFR 63.560(c)]	DOES NOT APPLY. Uncontrolled emissions are not above the major source threshold.
10-72: No. 1 Urea Plant Fugitives	NSPS Subpart VV - Standards of Performance for Equipment Leaks of VOC in SOCMI [40 CFR 60.480(b)] Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	DOES NOT APPLY. Construction or modification commenced prior to January 5, 1981. Equipment was constructed in 1972. Urea and UAN do not vaporize, they decompose to emit ammonia.
TK 109 Sump w/ Lid		Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.
11-72: No. 1 Urea Process Water Tank No. 104	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tanks were constructed in 1972 and do not store a VOC liquid.
12-72: No. 1 Urea Process Water Tank No. 106	Storage of Volatile Organic Compound [LAC 33:III.2103.A] Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	DOES NOT APPLY. Tanks do not store a VOC.
13-72: No. 1 Urea Process Water Tank No. 105		Sources emit Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia
14-72: No. 1 Urea Cooling Tower (CT-301)	NESHAP for Source Categories Subpart Q- Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.402]	DOES NOT APPLY. No water treatment programs containing chromium based water treatment chemicals in used at the IPCT.
1-75: UAN Storage Tank No. 801	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tanks were constructed in 1975 and have not been constructed, reconstructed, or modified after July 23, 1984.
2-75: UAN Storage Tank No. 802		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
1-75: UAN Storage Tank No. 801	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Tanks do not store a VOC. UAN does not vaporize, it decomposes to emit ammonia. UAN stored has no organic vapor pressure. Vapor pressure of ammonia from UAN stored is 0.01 psia.
2-75: UAN Storage Tank (cont.) No. 802	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Sources emit Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia, 800 ppmv vapor, 300 ppmv liq.
3-75: No. 3 Ammonia Plant Reformer	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. Gaseous fuel burning equipment. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. Reformer burns natural gas and process gas. It introduces no solid materials which may cause emissions of particulates. Combusts gaseous fuels only.
	Emission Standards for Sulfur Dioxide [LAC 33:II.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
4-75: No. 3 Ammonia Plant Hot Vent	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits methanol and ammonia, Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Overhead from the process condensate steam stripper is condensed prior to venting to the reformer stack. Reduces potential methanol and ammonia emissions by ≥99%.
	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	DOES NOT APPLY. Flare. Source used for startups and shutdowns. During use, this source is controlled by a flare.
	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials that may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:II.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
5-75: No. 3 Ammonia Plant Start-up Heater	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.
DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
6-75: No. 4 Ammonia Plant Reformer	Emission Limits [LAC 33:III.1311.B] Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. Gaseous fuel burning equipment. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Reformer burns natural gas and process gas. It introduces no solid materials which may cause emissions of particulates. Combusts gaseous fuels only.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
7-75: No. 4 Ammonia Plant Hot Vent	Control of Air Pollution from Smoke [LAC 33:III.1101.B] Emission Limits [LAC 33:III.1311.B]	Source emits methanol and ammonia, Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Overhead from the process condensate steam stripper is condensed prior to venting to the reformer stack. Reduces potential methanol and ammonia emissions by ≥99%.
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. Flare. Source used for startups and shutdowns. During use, this source is controlled by a flare.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials that may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
8-75: No. 4 Ammonia Plant Start-up Heater	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
12-75: No. 2 Urea/UAN Boiler A	NSPS Subpart D- Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971. [40 CFR 60.40(a)(1)]	DOES NOT APPLY. Heat input rates <250 MM BTU/hr.
13-75: No. 2 Urea/UAN Boiler B	NSPS Subpart Da- Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978. [40 CFR 60.40(a)]	DOES NOT APPLY. Not electric utility steam generating units. Heat input rates <250 MM BTU/hr.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.
DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
12-75; No. 2 Urea/UAN Boiler A	NSPS Subpart Db- Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b(a)]	DOES NOT APPLY. Have not been constructed, reconstructed, or modified after June 19, 1984. Last construction or modification in 1975.
13-75; No. 2 Urea/UAN Boiler B (cont.)	NSPS Subpart Dc- Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c(a)]	DOES NOT APPLY. Heat input capacities are >100 MM BTU/hr each and boilers have not been constructed, reconstructed, or modified after June 9, 1989.
	Emission Standards for Sulfur Dioxide, Emission Limitations [LAC 33:III.1503.C]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
14-75; No. 2 Urea High Pressure Scrubber	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report Ammonia. Source is a wet scrubber which reduces emissions of ammonia by ≥98%.
15-75; 16-75, 17-75, and 18-75; No. 2 Urea Granulator Scrubbers A-D TK-101, TK-102, & TK-108, Urea No. 2	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Sources emit Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia and methanol for TK-108, Urea No. 2, is equipped with water sprays which reduce emissions of ammonia by approximately 82%
20-75; No. 1 Nitric Acid Plant Absorber Stack	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Source is subject to NSPS Subpart G for Nitric Acid Plants [LAC 33:III.2307.B]
21-75; No. 2 Urea Vent X-101	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia. Source is controlled by a wet scrubber which reduces emissions of ammonia by ≥98%.
22-75; Complex II Ammonia Flare	Emission Limits [LAC 33:III.1311.B] Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials which may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111]. DOES NOT APPLY. The flare burns natural gas and process offgas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
22-75: Complex II Ammonia Flare (cont.)	Control Emissions of Organic Compounds (LAC 33:III.2115)	EXEMPT. The concentration of VOCs in each gas stream is <3000 ppmv. (LAC 33:III.2115.H.1.d) Based on memo by Louis Frey of CF Industries to Mike McDaniel of LDEQ dated 9/16/91.
23-75: No. 3 Ammonia Plant Carbon Dioxide Vent and 24-75: No. 4 Ammonia Plant Carbon Dioxide Vent	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Sources emit Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia and methanol
25-75: No. 1 Nitric Acid Plant Tank	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)] NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)] Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Tank does not meet the definition of a nitric acid production unit in §60.71(a). DOES NOT APPLY. Tank was constructed in 1975 and does not store a VOC liquid. DOES NOT APPLY. Tank does not meet the definition of a nitric acid production unit in LAC 33:III.111.
26-75: Complex II Gasoline Storage Tank	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Nitric acid Source is controlled by a wet scrubber which reduces emissions of nitric acid by >80%.
	NSPS Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110(a)] NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110a(a)] NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)] Volatile Organic Compounds - Loading [LAC 33:III.2107.A]	DOES NOT APPLY. Tank capacity is <40,000 gals. [§60.110(a)] DOES NOT APPLY. Tank constructed in 1975. Tank capacity is <40,000 gals. [§60.110a(a)] DOES NOT APPLY. Tank constructed in 1975 and has not been constructed, reconstructed, or modified after July 23, 1984. Tank is used to fuel company vehicles that have individual capacities less than 200 gallons and thus, it does not meet the definition of a loading facility covered under this section.
	Volatile Organic Compounds – Subchapter F. Gasoline Handling [LAC 33:III.2131.A]	Tank is used to fuel company vehicles and has a throughput of approximately 30,000 gallons per year. This tank meets the criteria for exemption specified in LAC 33:III.2131.D.3. Maintain records to demonstrate exemption.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.**

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
26-75: Complex II Gasoline Storage Tank (cont.)	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class I & II TAPs for which facility wide emissions are below the MERS. MACT is not required. Source emits benzene, a Class I TAP, xylene & ethylbenzene, Class II TAPs, and toluene and n-hexane, Class III TAPs, for which facility wide emissions are below the MERS.
27-75: Complex II Ammonia/UAN Railcar Storage and Loading	VOC Loading [LAC 33:III.2107]	DOES NOT APPLY. Source does not load a VOC. UAN does not vaporize, it decomposes to emit ammonia. UAN loaded has no organic vapor pressure. Vapor pressure of ammonia from UAN loaded is 0.01 psia.
28-75: UAN Storage Tank No. 804	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia, 800 ppmv vapor, 300 ppmv liq.
29-75: UAN Storage Tank No. 805	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tanks were constructed in 1975 and have not been constructed, reconstructed, or modified after July 23, 1984.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Tanks do not store a VOC. UAN does not vaporize, it decomposes to emit ammonia. UAN stored has no organic vapor pressure. Vapor pressure of ammonia from UAN stored is 0.01 psia.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia, 800 ppmv vapor, 300 ppmv liq.
30-75: Ammonia/UAN Barge Loading (Liquids Products Dock)	NESHAP for Source Categories Subpart Y- National Emission Standards for Marine Tank Vessel Loading Operations [40 CFR 63.560(c)]	DOES NOT APPLY. Barge loading operations do not meet the definition of <i>affected source</i> in §63.561. Source emits no HAPs. Loads ammonia and UAN
	Marine Vapor Recovery [LAC 33:III.2108]	DOES NOT APPLY. Source does not load a VOC. UAN does not vaporize, it decomposes to emit ammonia. UAN loaded has no organic vapor pressure. Vapor pressure of ammonia from UAN loaded is 0.01 psia.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia, 800 ppmv vapor, 300 ppmv liq.
31-75: No. 2 Pipeline Injection Station 32-75 & 33-75: No. 3 & No. 4 Ammonia Plant Fugitives	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Sources emit a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

- DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
34-75: No. 2 Urea Plant Fugitives	NSPS Subpart VV - Standards of Performance for Equipment Leaks of VOC in SOCM [40 CFR 60.480(b)] Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	DOES NOT APPLY. Construction or modification commenced prior to January 5, 1981. Urea and UAN do not vaporize, they decompose to emit ammonia. Equipment was constructed in 1975. Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.
35-75: No. 1 Nitric Acid Plant Fugitives	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B] Comprehensive Toxic Air Pollutant Emission Control Program - MACT [LAC 33:III.5109.A] STATE-ONLY	DOES NOT APPLY. Source is subject to NSPS Subpart G for Nitric Acid Plants [LAC 33:III.2307.B] Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.
36-75, 37-75 & 38-75: No. 2 Urea Process Water Tank No's 104, 106 & 105	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)] Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Tanks were constructed in 1975 and do not store a VOC liquid. DOES NOT APPLY. Tanks do not store a VOC.
36-75, 37-75 & 38-75: No. 2 Urea Process Water Tank No's 104, 106 & 105	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY Emission Limits [LAC 33:III.1311.B]	Sources emit Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials that may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
39-75: No. 3 Ammonia Plant Process Gas Vent 40-75: No. 4 Ammonia Plant Process Gas Vent	Emissions Limits [LAC 33:III.1311.C] Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C] Emission Standards for Sulfur Dioxide [LAC 33:III.1503] Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only. DOES NOT APPLY. The flare does not produce heat to be used in a process. DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3) DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
44-75; No. 1 Nitric Acid Drip Acid Tank (D-503)	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)]	DOES NOT APPLY. Tank does not meet the definition of <i>nitric acid production units</i> in §60.71(a).
	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank capacity is <10,000 gals. Tank was constructed in 1975 and does not store a VOC liquid.
	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in LAC 33:III.111.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Nitric acid
45-75; No. 1 Nitric Acid Process Water Tank	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)]	DOES NOT APPLY. Tank does not meet the definition of <i>nitric acid production units</i> in §60.71(a).
	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank capacity is <10,000 gals. Tanks were constructed in 1975 and do not store a VOC liquid.
	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in LAC 33:III.111.
	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	DOES NOT APPLY. Flare.
	Emission Limits [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials which may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
48-75; No. 3 & No. 4 Ammonia Plant Sulfuric Acid Receiving Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank venting to flare does not store a VOC liquid. Tank constructed in 1975.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.**

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
48-75; No. 3 & No. 4 Ammonia Plant Sulfuric Acid Receiving Tank (cont.)	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.
51-75; No. 1 Nitric Acid Reclaim Tank	Comprehensive Toxic Air Pollutant Emission Control Program - MACT [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Sulfuric acid
51-75; No. 1 Nitric Acid	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)]	DOES NOT APPLY. Tank does not meet the definition of a nitric acid production unit in §60.71(a).
	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank was constructed in 1975 and does not store a VOC liquid. Tank capacity is 1,067 gals.
	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Tank does not meet the definition of a nitric acid production unit in LAC 33:III.111.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Nitric Acid
52-75; No. 3 & No. 4 Ammonia Plant Methanol Fugitives	NSPS Subpart VV - Standards of Performance for Equipment Leaks of VOC in SOCMI [40 CFR 60.480(b)]	DOES NOT APPLY. Construction or modification commenced prior to January 5, 1981. Plant does not produce, as intermediates or final products, one or more of the chemicals listed in §60.489. Equipment was constructed in 1975.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Methanol
53-75; Complex II Demineralization Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1975.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.
54-75; South Pond 55-75; West Pond	Comprehensive Toxic Air Pollutant Emission Control Program - MACT [LAC 33:III.5109.A] STATE-ONLY	Sources emit a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Wastewater containing ammonia. Constructed in 1975.
56-75; No. 1 Urea Plant Sulfuric Acid Receiving Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1975.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.
DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
57-75: Laboratory Hood Vents	Comprehensive Toxic Air Pollutant Emission Control Program – MACT. [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia
58-75: No. 3 Ammonia Cooling Tower (CT-2201UA), 59-75: No. 4 Ammonia Cooling Tower (CT-2201UB)	NESHAP for Source Categories Subpart Q- Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.402]	DOES NOT APPLY. No water treatment programs containing chromium based water treatment chemicals in used at any of the IPCTs.
60-75: No. 1 Nitric Acid Cooling Tower (CT-301)		
61-75: No. 2 Urea Cooling Tower (CT-301)		
62-75: No. 3 Ammonia Alkanol Amine Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tanks were constructed in 1975 and have not been constructed, reconstructed, or modified after July 23, 1984. Alkanol amine storage tanks Tank capacities are 37,000 gals each. Tanks were constructed in 1975.
63-75: No. 4 Ammonia Alkanol Amine Tank	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Vapor pressure of the stored liquid is <1.5 psia.
1-76: No. 2 Urea Sulfuric Acid Receiving Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1976. Tank capacity is 1,000 gals.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Sulfuric Acid
1-78: Complex II Effluent Pond Sulfuric Acid Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1978. Tank capacity is 4,760 gals.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
1-89: No. 2 Urea Water Separator Drum (D-124)	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC liquid. Tank capacity is 432 gals. Water containing ammonia impurity.
1-91: No. 3 Urea Boiler	Storage of Volatile Organic Compound [LAC 33:III.2103.A] NSPS Subpart D- Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971. [40 CFR 60.40(a)(1)]	DOES NOT APPLY. Does not store a VOC. DOES NOT APPLY. Heat input rate <250 MM BTU/hr.
	NSPS Subpart Da- Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978. [40 CFR 60.40(a)(a)]	DOES NOT APPLY. Not an electric utility steam generating unit. Heat input rate <250 MM BTU/hr.
	NSPS Subpart Dc- Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40(c)(a)]	DOES NOT APPLY. Heat input capacity is >100 MM BTU/hr and has not been constructed, reconstructed, or modified after June 9, 1989.
	Emission Standards for Sulfur Dioxide, Emission Limitations [LAC 33:III.1503.C]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
No. 1 UAN Clean Condensate Tank	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia and nitric acid
2-91 : No. 1 UAN Neutralizer Vent	Compliance Assurance Monitoring (CAM) [40 CFR 64]	DOES NOT APPLY. Uncontrolled emissions are not above the major source threshold.
3-91: No. 3 Urea/No. 1 UAN Fugitives	NSPS Subpart VV - Standards of Performance for Equipment Leaks of VOC in SOCMI [40 CFR 60.480(d)(5)]	EXEMPT. Per §60.480(d)(5) Plant does not produce, as intermediates or final products, one or more of the chemicals listed in §60.489. No. 3 Urea is dedicated to UAN production and has no granulation capability. Records shall be kept per §60.486(i)(3). Equipment was constructed in 1991. Urea and UAN do not vaporize, they decompose to emit ammonia.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.
4-91: No. 2 Nitric Acid Plant Absorber Stack	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Source is subject to NSPS Subpart G for Nitric Acid Plants. [LAC 33:III.2307.B]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
4-91: No. 2 Nitric Acid Plant Absorber Stack (cont.)	Comprehensive Toxic Air Pollutant Emission Control Program – MACT [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia
5-91: No. 2 Nitric Acid Plant Tank	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)] NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in §60.71(a). DOES NOT APPLY. Tank was constructed in 1975 and does not store a VOC liquid.
	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in LAC 33:III.111.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Nitric acid. Source is controlled by a wet scrubber which reduces emissions of nitric acid by ≥80%.
6-91: UAN Storage Tank No. 816	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)] Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Tank was constructed in 1975 and have not been constructed, reconstructed, or modified after July 23, 1984. DOES NOT APPLY. Tank does not store a VOC. UAN does not vaporize, it decomposes to emit ammonia.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide, TEDI report. Ammonia, 800 ppmv vapor, 300 ppmv liq.
7-91 No. 3 Urea Vent X-201	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide, TEDI report. Ammonia. Urea decomposes to emit ammonia and CO ₂ . Vapor pressure of ammonia from urea is 0.01 psia.
8-91: No. 2 Nitric Acid Plant Clean Condensate Tank	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)] NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in §60.71(a). DOES NOT APPLY. Tank does not store a VOC liquid. Tank capacity is 1,197 gals.
	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in LAC 33:III.111.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
8-91: No. 2 Nitric Acid Plant Clean Condensate Tank (cont.)	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TED1 report. Nitric acid
9-91: No. 2 Nitric Acid Plant Fugitives	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60..72(a)(1) &(2)] Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	No specific standards for fugitives from a nitric acid plant. Nitrogen oxides emissions should not exceed 3.0 lb/ton nitric acid produced per §60.72(a)(1). Emissions shall not exhibit ≥10% opacity. DOES NOT APPLY. Source is subject to NSPS Subpart G for Nitric Acid Plants.[LAC 33:III.2307.B]
10-91: No. 2 Nitric Acid Cooling Tower (CT-401)	Comprehensive Toxic Air Pollutant Emission Control Program MACT [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TED1 report. Ammonia fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas. DOES NOT APPLY. No water treatment programs containing chromium based water treatment chemicals in used at the I.P.C.T.
2-92: No. 2 Urea UF-85 Storage Tank	NESHAP for Source Categories Subpart Q- Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.402]	DOES NOT APPLY. Tank was built in 1976.
NSPS Subpart VV - Standards of Performance for Equipment Leaks of VOC in SOCM1 [40 CFR 60.480]	Compliance Assurance Monitoring (CAM) [40 CFR 64]	DOES NOT APPLY. Uncontrolled emissions are not above the major source threshold.
NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60..110a(a)]	DOES NOT APPLY. Tank does not store petroleum liquids.	
NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60..110b(a)] Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. UF-85 additive contains formaldehyde. Vapor pressure of UF-85 additive containing formaldehyde is 0.783 psia. Which is less than 2.176 psia and tank volume is less than 33,618 gallons. Tank constructed before 1980. DOES NOT APPLY. Vapor pressure of the stored liquid is <1.5 psia. Vapor pressure of UF-85 additive containing formaldehyde and methanol is 0.783 psia.	
3-92: Complex II Pipeline Flare	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	DOES NOT APPLY. Flare.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.
DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
3-92: Complex II Pipeline Emission Limits Flare (cont.) [LAC 33:III.1311.B]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare introduces no solid materials that may cause emissions of particulates. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111].	
Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Flare combusts gaseous fuels only.	
Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.	
Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)	
Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.	
1-93: No. 2 Nitric Acid Sulfuric Acid Receiving Tank	DOES NOT APPLY. Does not store a VOC liquid. Tank constructed in 1993. Tank capacity is 1,036 gals.	
NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Does not store a VOC.	
Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC.	
Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Sulfuric Acid	
Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia	
2-95: No. 4 Urea Granulator	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia	
3-95: No. 4 Urea Vent X-101 Surge Tank TK-101 Process Condensate Tank TK-102	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia and methanol Alternate operating scenario includes emissions during 24 hrs of shutdown. Tanks vent through X-101.	
4-95: No. 3 Nitric Acid Plant Absorber Stack	DOES NOT APPLY. Source is subject to NSPS Subpart G for Nitric Acid Plants.[LAC 33:III.2307.B]	
Comprehensive Toxic Air Pollutant Emission Control Program – MACT [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
5-95: No. 3 Nitric Acid Plant Tank	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)] NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in §60.71(a). DOES NOT APPLY. Tank does not store a VOC liquid.
	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in LAC 33:III.111.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Nitric acid
6-95: No. 4 Urea UF-85 Storage Tank	NSPS Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110(a)]	DOES NOT APPLY. Tank does not store petroleum liquids.
	Compliance Assurance Monitoring (CAM) [40 CFR 64]	DOES NOT APPLY. Uncontrolled emissions are not above the major source threshold.
	NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110a(a)]	DOES NOT APPLY. Tank does not store petroleum liquids.
	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. UF-85 additive contains formaldehyde. Vapor pressure of UF-85 additive containing formaldehyde and methanol is 0.783 psia. Which is less than 2.176 psia and tank volume is less than 39,890 gallons. Tank constructed in 1995.
	Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Vapor pressure of the stored liquid is <1.5 psia. Vapor pressure of UF-85 additive containing formaldehyde is 0.97 psia.
7-95: No. 2 UAN Neutralizer/Mix Vent UAN Mix Tank	Emission Standards for Particulate Matter [LAC 33:III.1311.B]	DOES NOT APPLY. During normal operation, total condenser recovers 100% of steam from neutralizer stream that is recycled to No. 3 Nitric Acid absorber. No. 2 UAN AN Neutralizer and UAN Mix Tank, 6,283 gals, vent to No. 2 UAN Neutralizer/Mix Vent, Emission Point 7-95.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Excess acid in neutralizer eliminates ammonia emissions from neutralizer vent.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
9.95: No. 3 Nitric Acid Clean Condensate Tank	NSPS Subpart G - Standards of Performance for Nitric Acid Plants [40 CFR 60.71(a)] NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in §60.71(a). DOES NOT APPLY. Tank does not store a VOC liquid. Tank capacity is 6,800 gals.
10-95: No 4. Urea Boiler	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B] NSPS Subpart Da- Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978. [40 CFR 60.40a(a)] NSPS Subpart Dc- Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c(a)] Emission Standards for Sulfur Dioxide, Emission Limitations [LAC 33:III.1503.C]	DOES NOT APPLY. Tank does not meet the definition of a <i>nitric acid production unit</i> in LAC 33:III.111. DOES NOT APPLY. Not an electric utility steam generating unit. DOES NOT APPLY. Heat input capacity is >100 MM BTU/hr. DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
11-95: No. 4 Urea Plant Fugitives	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia. Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas.
12-95: No. 3 Nitric Acid Plant/ No. 2 UAN Fugitives	Subchapter D- Emission Standards for Nitric Acid Industry [LAC 33:III.2307.B] NSPS Subpart VV - Standards of Performance for Equipment Leaks of VOC in SOCMI [40 CFR 60.480(b)] Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	DOES NOT APPLY. Source is subject to NSPS Subpart G for Nitric Acid Plants [LAC 33:III.2307.B] DOES NOT APPLY. Plant does not produce, as intermediates or final products, one or more of the chemicals listed in §60.489. UAN does not vaporize, it decompose to emit ammonia.
14-95: Urea Loading Barge Dock	NESHAP for Source Categories Subpart Y- National Emission Standards for Marine Tank Vessel Loading Operations [40 CFR 63.560(c)]	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia. Fugitive emissions of ammonia are controlled by routine inspection of equipment for leaks during normal plant rounds, investigation of ammonia odors, and response to ammonia monitoring system alarms in remote areas. DOES NOT APPLY. Barge loading operations do not meet the definition of <i>affected source</i> in §63.561. Source emits no HAPs.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**DONALDSONVILLE NITROGEN COMPLEX
AGENCY INTEREST NO.: 2416
CF INDUSTRIES, INC.**

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
15-95: UAN Storage Tank No. 817	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110(b)(a)] Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Tank does not store a VOC. UAN does not vaporize, it decomposes to emit ammonia.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	DOES NOT APPLY. Tank does not store a VOC. UAN does not vaporize, it decomposes to emit ammonia. UAN has no organic vapor pressure. Vapor pressure of ammonia from UAN stored is 0.01 psia.
17-95: Ammonia Flare	Control of Air Pollution from Smoke [LAC 33:III.1101.B] Emission Limits [LAC 33:III.1311.B]	Source emits a Class III TAP: MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia, 800 ppmv vapor, 300 ppmv liq. DOES NOT APPLY. Flare.
	Emissions Limits [LAC 33:III.1311.C]	DOES NOT APPLY. The flare burns natural gas and process gas. Gaseous fuels are excluded in the definition of "Process Weight" [LAC 33:III.111]. DOES NOT APPLY. The flare burns natural gas and process offgas. Flare combusts gaseous fuels only.
	Emission Standards for Particulate Matter, Emissions from Fuel Burning Equipment [LAC 33:III.1313.C]	DOES NOT APPLY. The flare does not produce heat to be used in a process.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1503]	DOES NOT APPLY. Source emits <5 tons/year. (LAC 33:III.1502.A.3)
	Control Emissions of Organic Compounds [LAC 33:III.2115.M]	DOES NOT APPLY. Gas stream is not classified as a waste gas stream. Any gas stream exiting a combustion device is not considered a waste gas.
18-95: No. 4 Urea Plant Sulfuric Acid Receiving Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110(b)(a)] Storage of Volatile Organic Compound [LAC 33:III.2103.A]	DOES NOT APPLY. Does not store a VOC liquid. DOES NOT APPLY. Does not store a VOC.
	Comprehensive Toxic Air Pollutant Emission Control Program MACT [LAC 33:III.5109.A] STATE ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Sulfuric acid.
19-95: No. 4 Urea Relief Valve Separator (D-102)	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE-ONLY	Source emits a Class III TAP. MACT is not required. Emissions to be reported in facility wide TEDI report. Ammonia.
20-95: No. 3 Nitric Acid Cooling Tower (CT-301)	NESHAP for Source Categories Subpart Q- Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.402]	DOES NOT APPLY. No water treatment programs containing chromium based water treatment chemicals in used at either of the IPCTs.
21-95: No. 4 Urea Cooling Tower (CT-301)		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DONALDSONVILLE NITROGEN COMPLEX

AGENCY INTEREST NO.: 2416

CF INDUSTRIES, INC.

DONALDSONVILLE, ASCENSION PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
ALTCO2: Common Carbon Dioxide Vent	Control Emissions of Organic Compounds (LAC 33:III.2.115)	EXEMPT. The concentration of VOCs in the gas stream is <3000 ppmv. (LAC 33:III.2.115.H.1.d) Based on memo by Louis Frey of CF Industries to Mike McDaniel of LDEQ dated 9/16/91.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.C] STATE-ONLY	Source emits Class III TAPs. MACT is not required. Emissions to be reported in facility wide TED1 report. Ammonia and Methanol

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

40 CFR PART 70 GENERAL CONDITIONS

emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a

40 CFR PART 70 GENERAL CONDITIONS

written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 - 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 - 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 - 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 - 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 - 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

40 CFR PART 70 GENERAL CONDITIONS

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated May 9, 2008, with supplemental information dated October 29, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VI. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33:1 Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December
 - D. Each report submitted in accordance with this condition shall contain the following information:
 - 1. Description of noncomplying emission(s);
 - 2. Cause of noncompliance;
 - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
 - E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:1.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 2416 CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Also Known As:	ID	Name	User Group	Start Date
	0180-00004	CF Industries Inc - Donaldsonville Nitrogen Complex	CDS Number	08-05-2002
36-2097061		Federal Tax ID	Federal Tax ID	09-14-1999
LAD056022387		CF Industries Inc	Hazardous Waste Notification	09-23-1999
LA0000418		LPDES #	LPDES Permit #	06-25-2003
WP0517		WPC State Permit #	LWDPS Permit #	06-25-2003
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
LA-2864-L01		Radioactive Material License	Radiation License Number	03-02-2001
2864		X-Ray Registration Number	Radiation X-ray Registration Number	05-03-2004
GD-005-0827		Site ID #	Solid Waste Facility No.	05-01-2001
19903		CF Industries Inc	TEMPO Merge	07-10-2001
20093		CF Industries Inc	TEMPO Merge	01-04-2001
38838		CF Industries Inc	TEMPO Merge	07-10-2001
75750		CF Industries Inc	TEMPO Merge	07-10-2001
70346CFNDSHWY30		TRI #	Toxic Release Inventory	07-09-2004
429		UST Case History Case #	UST Case Number	11-21-1999
949		UST Case History Case Number	UST Case Number	11-21-1999
03001196		UST Facility ID (from UST legacy data)	UST FID #	10-11-2002
			Main Phone:	2254738291
Physical Locations:		39018 Hwy 3089 Donaldsonville, LA 70346		
Mailing Address:		PO Box 468 Donaldsonville, LA 703460468		
Location of Front Gate:		30° 5' 13" 52 hundredths latitude, 90° 55' 27" 17 hundredths longitude, Coordinate Method: Lat\Long - DMS, Coordinate Datum: NAD83		
Related People:		Name	Phone (Type)	Relationship
		Mailing Address		
Elizabeth Dance		PO Box 468 Donaldsonville, LA 703460468	bdance@cfindustries	Emission Inventory Contact for
Elizabeth Dance		PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Emission Inventory Contact for
Louis Frey		PO Box 468 Donaldsonville, LA 703460468	lfrey@cfindustries.cc	Responsible Official for
Louis Frey		PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Responsible Official for
Louis Frey		PO Box 468 Donaldsonville, LA 703460468	lfrey@cfindustries.cc	Accident Prevention Contact for
Louis Frey		PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Accident Prevention Contact for
Morris Johnson		PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Emission Inventory Contact for
Morris Johnson		PO Box 468 Donaldsonville, LA 703460468	MJOHNSON@CF-D	Haz. Waste Billing Party for
Morris Johnson		PO Box 468 Donaldsonville, LA 703460468	MJOHNSON@CF-D	Emission Inventory Contact for

General Information

AI ID: 2416 CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Morris Johnson	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Accident Prevention Contact for
	Morris Johnson	PO Box 468 Donaldsonville, LA 703460468	MJOHNSON@CF-D	Accident Prevention Contact for
	Morris Johnson	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Haz Waste Billing Party for
	Louis LeBlanc	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Radiation Safety Officer for
	Louis LeBlanc	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Radiation Contact For
Related Organizations:	Name	Address	Phone (Type)	Relationship
	CF Industries Inc	PO Box 468 Donaldsonville, LA 703460468		Owns
	CF Industries Inc	PO Box 468 Donaldsonville, LA 703460468		Emission Inventory Billing Party
	CF Industries Inc - Accounts Payable	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Air Billing Party for
	CF Industries Inc - Accounts Payable	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Radiation License Billing Party for
	CF Industries Inc - Accounts Payable	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Accident Prevention Billing Party for
	CF Industries Inc - Accounts Payable	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Water Billing Party for
	CF Industries Inc - Accounts Payable	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Radiation Registration Billing Party for
	CF Industries Inc - Accounts Payable	PO Box 468 Donaldsonville, LA 703460468	2254738291 (WP)	Solid Waste Billing Party for
NAIC Codes:	325311. Nitrogenous Fertilizer Manufacturing			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.

INVENTORIES

ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
AMMONIA 1, 2, 3, 4						
EQT 0010	1-65 - No. 1 Ammonia Plant Reformer		916.7 MM BTU/hr	810.75 MM BTU/hr		8760 hr/yr
EQT 0011	1-67 - No. 2 Ammonia Plant Reformer		916.7 MM BTU/hr	810.75 MM BTU/hr	Sulfuric Acid	8760 hr/yr
EQT 0015	1-78 - Complex II Effluent Pond Sulfuric Acid Tank	4759 gallons	25000 gallons/yr		Sulfuric Acid	8760 hr/yr
EQT 0023	12-65 - No. 1 Ammonia Plant Sulfuric Acid Receiving Tank	5235 gallons	95800 gallons/yr		Sulfuric Acid	8760 hr/yr
EQT 0031	15-65 - Complex I Ammonia Flare		7 MM ft ³ /yr	.82 MM BTU/hr		8760 hr/yr
EQT 0034	16-65 - Complex II Demineralization Tank	190008 gallons	Not applicable			8760 hr/yr
EQT 0036	17-65 - No. 1 Ammonia Cooling Tower (CT-2201U)		62000 gallons/min			8760 hr/yr
EQT 0039	18-65 - No. 1 Ammonia Alkanol Amine Tank	37600 gallons	87320 gallons/yr			8760 hr/yr
EQT 0050	22-75 - Complex II Ammonia Flare		3.5 MM ft ³ /yr	.41 MM BTU/hr		8760 hr/yr
EQT 0052	26-75 - Complex II Gasoline Storage Tank	3000 gallons	36000 gallons/yr	Gasoline		8760 hr/yr
EQT 0055	3-65 - No. 1 Ammonia Plant Start-up Heater		37.2 MM BTU/hr			12 hr/yr
EQT 0056	3-67 - No. 2 Ammonia Plant Start-up Heater		37.2 MM BTU/hr			12 hr/yr
EQT 0058	3-75 - No. 3 Ammonia Plant Reformer		916.7 MM BTU/hr	891.78 MM BTU/hr		8760 hr/yr
EQT 0059	3-92 - Complex II Pipeline Flare		.16 MM ft ³ /yr	.82 MM BTU/hr		200 hr/yr
EQT 0060	30-75 - Ammonia/LAN Barge Loading (Liquid Products Dock)		752000 tons/yr		Ammonia	1440 hr/yr
EQT 0065	4-65 - Complex I Ammonia Flare		6 MM ft ³ /yr	.71 MM BTU/hr		8760 hr/yr
EQT 0072	48-75 - No. 3 & 4 Ammonia Plants Sulfuric Acid Receiving Tank	10400 gallons	350000 gallons/yr	Sulfuric Acid		8760 hr/yr
EQT 0075	5-75 - No. 3 Ammonia Plant Start-up Heater		43 MM BTU/hr			12 hr/yr
EQT 0079	53-75 - Complex II Demineralization Tank		65000 gallons/min			8760 hr/yr
EQT 0081	58-75 - No. 3 Ammonia Cooling Tower (CT-2201UA)		65000 gallons/min			8760 hr/yr
EQT 0082	59-75 - No. 4 Ammonia Cooling Tower (CT-2201UB)		916.7 MM BTU/hr	891.78 MM BTU/hr		8760 hr/yr
EQT 0083	6-75 - No. 4 Ammonia Plant Reformer		45000 gallons/yr			8760 hr/yr
EQT 0088	62-75 - No. 3 Ammonia Alkanol Amine Tank	37600 gallons	45000 gallons/yr			8760 hr/yr
EQT 0089	63-75 - No. 4 Ammonia Alkanol Amine Tank	37600 gallons	300000 tons/yr	Ammonia		8760 hr/yr
EQT 0090	7-65 - Ammonia Plant Loading		95800 gallons/yr	Sulfuric Acid		500 hr/yr
EQT 0093	8-67 - No. 2 Ammonia Plant Sulfuric Acid Receiving Tank	5235 gallons	43 MM BTU/hr			8760 hr/yr
EQT 0095	8-75 - No. 4 Ammonia Plant Start-up Heater		62000 gallons/min			12 hr/yr
EQT 0097	9-67 - No. 2 Ammonia Cooling Tower (CT-2201U)		755 horsepower	Diesel		8760 hr/yr
EQT 0112	1-06 - NH3 Complex 2 Emergency Generator		475 horsepower	Diesel		600 hr/yr
EQT 0113	1-07 - Air Compressor, Ammonia 1 and 2		475 horsepower	Diesel		400 hr/yr
EQT 0114	2-07 - Air Compressor, Ammonia 3 and 4		475 horsepower	Diesel		400 hr/yr
FUG 0005	27-75 - Complex II Ammonia/LAN Railcar Storage and Loading					8760 hr/yr
FUG 0007	32-75 - No. 3 Ammonia Plant Fugitives					8760 hr/yr
FUG 0008	33-75 - No. 4 Ammonia Plant Fugitives					8760 hr/yr
FUG 0011	52-75 - No. 3 & 4 Ammonia Plant Methanol Fugitives					8760 hr/yr
FUG 0012	6-67 - No. 2 Ammonia Plant Fugitives					8760 hr/yr
FUG 0013	9-65 - No. 1 Ammonia Plant Fugitives					8760 hr/yr

Page 1 of 14

TP050149

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Subject Item Inventory:	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ID						
AMMONIA 1, 2, 3, 4						
FUG 0015	8-65 - Complex 1 Ammonia Storage & Railcar Loading					8760 hr/yr
RLP 0008	10-65 - No. 1 Ammonia Plant Process Gas Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
RLP 0009	2-65 - No. 1 Ammonia Plant Hot Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
RLP 0010	2-67 - No. 2 Ammonia Plant Hot Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
RLP 0013	23-75 - No. 3 Ammonia Plant Carbon Dioxide Vent	651525 tons/yr	1785 tons/day	1785 tons/day	Ammonia	8760 hr/yr
RLP 0014	24-75 - No. 4 Ammonia Plant Carbon Dioxide Vent	651525 tons/yr	1785 tons/day	1785 tons/day	Ammonia	8760 hr/yr
RLP 0016	39-75 - No. 3 Ammonia Plant Process Gas Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
RLP 0017	4-67 - No. 2 Ammonia Plant Carbon Dioxide Vent		1620 tons/day	1620 tons/day	Ammonia	8760 hr/yr
RLP 0018	4-75 - No. 3 Ammonia Plant Hot Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
RLP 0019	40-75 - No. 4 Ammonia Plant Process Gas Vent		1620 tons/day	1620 tons/day	Ammonia	8760 hr/yr
RLP 0020	5-65 - No. 1 Ammonia Plant Carbon Dioxide Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
RLP 0023	7-67 - No. 2 Ammonia Plant Process Gas Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
RLP 0024	7-75 - No. 4 Ammonia Plant Hot Vent		24 MM BTU/hr	24 MM BTU/hr	Ammonia	8760 hr/yr
AMMONIUM NITRATE 1, 2						
EOT 0013	11-75 - UAN Storage Tank #801	2.27 million gallons	52357200 gallons/yr	52357200 gallons/yr	UAN	8760 hr/yr
EOT 0033	15-95 - UAN Storage Tank #817	7.27 million gallons	16727221 gallons/yr	16727221 gallons/yr	UAN	8760 hr/yr
EOT 0044	12-75 - UAN Storage Tank #802	2.27 million gallons	16727221 gallons/yr	16727221 gallons/yr	UAN	8760 hr/yr
EOT 0053	28-75 - UAN Storage Tank #804	3.53 million gallons	81288900 gallons/yr	81288900 gallons/yr	UAN	8760 hr/yr
EOT 0054	29-75 - UAN Storage Tank #805	3.53 million gallons	81288900 gallons/yr	81288900 gallons/yr	UAN	8760 hr/yr
EOT 0084	6-91 - UAN Storage Tank #816	3.51 million gallons	80664694 gallons/yr	80664694 gallons/yr	UAN	8760 hr/yr
EOT 0105	2-91a - UAN Mix Tank	6283 gallons				8760 hr/yr
EOT 0107	2-91c - No. 1 UAN Clean Condensate Tank	5113 gallons				8760 hr/yr
EOT 0110	17-91a - UAN Mix Tank	11977 gallons	47908 gallons/yr	47908 gallons/yr	Ammonium Nitrate	8760 hr/yr
RLP 0011	2-91 - No. 1 UAN Neutralizer Vent	59400 tons/yr	1627 tons/day	1627 tons/day	Ammonium Nitrate	8760 hr/yr
RLP 0026	7-95 - No. 2 UAN Neutralizer/Mix Tank Vent	Not applicable				8760 hr/yr

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER200080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
NITRIC ACID 1, 2, 3						
EQT 0018	1-93 - No. 2 Nitric Acid Sulfuric Acid Receiving Tank	1000 gallons	2000 gallons/yr		Sulfuric Acid	8760 hr/yr
EQT 0020	10-91 - No. 2 Nitric Acid Cooling Tower (CT-401)		30000 gallons/min			8760 hr/yr
EQT 0047	20-75 - No. 1 Nitric Acid Plant Absorber Stack		265000 tons/yr	726 tons/day	Nitric Acid	8760 hr/yr
EQT 0048	20-95 - No. 3 Nitric Acid Cooling Tower (CT-301)		35000 gallons/min			8760 hr/yr
EQT 0051	25-75 - No. 1 Nitric Acid Plant Tank	181731 gallons	726924 gallons/yr		Nitric Acid	8760 hr/yr
EQT 0057	4-91 - No. 2 Nitric Acid Plant Absorber Stack		200750 tons/yr	550 tons/day	Nitric Acid	8760 hr/yr
EQT 0068	4-95 - No. 3 Nitric Acid Plant Absorber Stack		500000 tons/yr	1370 tons/day	Nitric Acid	8760 hr/yr
EQT 0069	44-75 - No. 1 Nitric Acid Drip Acid Tank (D5G3)	436 gallons	10210 gallons/yr		Nitric Acid	8760 hr/yr
EQT 0070	45-75 - No. 1 Nitric Acid Process Water Tank	45362 gallons				8760 hr/yr
EQT 0076	5-91 - No. 2 Nitric Acid Plant Tank	46952 gallons	187808 gallons/yr		Nitric Acid	8760 hr/yr
EQT 0077	5-95 - No. 3 Nitric Acid Plant Tank	187686 gallons	750744 gallons/yr		Nitric Acid	8760 hr/yr
EQT 0078	51-75 - No. 1 Nitric Acid Redclaim Tank	1067 gallons	65525 gallons/yr		Nitric Acid	8760 hr/yr
EQT 0086	60-75 - No. 1 Nitric Acid Cooling Tower (CT-301)		16000 gallons/min			8760 hr/yr
EQT 0096	8-91 - No. 2 Nitric Acid Clean Condensate Tank	12670 gallons	50680 gallons/yr			8760 hr/yr
EQT 0098	9-95 - No. 3 Nitric Acid Clean Condensate Tank	41571 gallons				8760 hr/yr
FUG 0003	12-95 - No. 3 Nitric Acid Plant /No. 2 UAN Fugitives					8760 hr/yr
FUG 0010	35-75 - No. 1 Nitric Acid Plant Fugitives					8760 hr/yr
FUG 0014	9-91 - No. 2 Nitric Acid Plant Fugitives					8760 hr/yr

Page 3 of 14

TPOR0148

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
UREA 1, 2, 3, 4	6-95 - Urea Warehouse Storage/Loading No. 2		637250 tons/yr	1.33 MM BTU/hr	Urea	Operating time based upon railcar and truck loading
ARE 0002	9-72 - No. 1 Urea Warehouse Storage/Loading			242.1 MM BTU/hr	Urea Storage	Operating time based upon railcar and truck loading
EQT 0012	1-72 - No. 1 Urea Boiler	1036 gallons	3000 gallons/yr	221.4 MM BTU/hr	Sulfuric Acid	1510 hr/yr
EQT 0014	1-76 - No. 2 Urea Sulfuric Acid Receiving Tank	432 gallons	1728 gallons/yr			2980 hr/yr
EQT 0016	1-89 - No. 2 Urea/Water Separator Drum (D-124)			106.8 MM BTU/hr		
EQT 0017	1-91 - No. 3 Urea Boiler			994625 tons/yr	Urea	8760 hr/yr
EQT 0019	1-95 - No. 4 Urea Low Pressure Absorber Vent			97000 tons/yr		8760 hr/yr
EQT 0021	10-95 - No. 4 Urea Boiler			325.8 MM BTU/hr		8760 hr/yr
EQT 0022	11-72 - No. 1 Urea Process Water Tank #104	25368 gallons	101472 gallons/yr			8760 hr/yr
EQT 0024	12-72 - No. 1 Urea Process Water Tank #106	5076 gallons	20304 gallons/yr			8760 hr/yr
EQT 0025	12-75 - No. 2 Urea Boiler A			201.9 MM BTU/hr		8760 hr/yr
EQT 0026	13-72 - No. 1 Urea Process Water Tank #105	27888 gallons	111552 gallons/yr	175.2 MM BTU/hr		8760 hr/yr
EQT 0027	13-75 - No. 2 Urea Boiler B		201.9 MM BTU/hr			8760 hr/yr
EQT 0028	14-72 - No. 1 Urea Cooling Tower (CT-301)		27000 gallons/min			8760 hr/yr
EQT 0029	14-75 - No. 2 Urea High Pressure Scrubber			80300 tons/yr	Urea	8760 hr/yr
EQT 0030	14-95 - Urea Loading Barge Dock			1.38 MM tons/yr	Granular Urea	1723 hr/yr
EQT 0032	15-75 - No. 2 Urea Granulator Scrubber A			200750 tons/yr	550 tons/day	8760 hr/yr
EQT 0035	16-75 - No. 2 Urea Granulator Scrubber B			200750 tons/yr	550 tons/day	8760 hr/yr
EQT 0037	17-75 - No. 2 Urea Granulator Scrubber C			200750 tons/yr	550 tons/day	8760 hr/yr
EQT 0038	17-95 - No. 4 Urea/ No. 2 UAN Ammonia Flare			6.1 MM ft ³ /yr	71 MM BTU/hr	8760 hr/yr
EQT 0040	18-75 - No. 2 Urea Granulator Scrubber D			200750 tons/yr	550 tons/day	8760 hr/yr
EQT 0041	18-95 - No. 4 Urea Sulfuric Acid Receiving Tank	6555 gallons	13110 gallons/yr		Sulfuric Acid	8760 hr/yr
EQT 0042	19-95 - No. 4 Urea Relief Valve Separator (D-102)			Not applicable		120 hr/yr
EQT 0043	2-72 - No. 1 Urea High Pressure Scrubber			529125 tons/yr	1450 tons/day	8760 hr/yr
EQT 0045	12-92 - No. 2 Urea UF-85 Storage Tank	33618 gallons	905438 gallons/yr	UF-85		8760 hr/yr
EQT 0046	2-95 - No. 4 Urea Granulator			631250 tons/yr	6875 tons/hr	8760 hr/yr
EQT 0049	2-1-95 - No. 4 Urea Cooling Tower (CT-301)			73000 gallons/min	65000 gallons/min	8760 hr/yr
EQT 0057	3-72 - No. 1 Urea Granulator Scrubber "A"			173375 tons/yr	483 tons/day	8760 hr/yr
EQT 0062	36-75 - No. 2 Urea Process Water Tank #104	42300 gallons	169200 gallons/yr			8760 hr/yr
EQT 0063	37-75 - No. 2 Urea Process Water Tank #105	42300 gallons	169200 gallons/yr			8760 hr/yr
EQT 0064	38-75 - No. 2 Urea Process Water Tank #106	11800 gallons	47376 gallons/yr			8760 hr/yr
EQT 0066	4-72 - No. 1 Urea Granulator Scrubber "B"		176375 tons/yr	483 tons/day	Urea	8760 hr/yr
EQT 0071	47-75 - Complex II Urea/UAN Ammonia Flare		16 MM ft ³ /yr	82 MM BTU/hr		200 hr/yr
EQT 0074	5-72 - No. 1 Urea Granulator Scrubber "C"		176375 tons/yr	483 tons/day	Urea	8760 hr/yr
EQT 0080	56-75 - No. 1 Urea Sulfuric Acid Receiving Tank	1175 gallons	2700 gallons/yr		Sulfuric Acid	8760 hr/yr
EQT 0085	16-95 - No. 4 Urea UF-85 Storage Tank	13925 gallons	1.21 MM gallons/yr	UF-85		8760 hr/yr

Page 4 of 14

TP01048

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time	
UREA 1, 2, 3, 4							
EQT 0087	61-75 - No. 2 Urea Cooling Tower (CT-301)		40000 gallons/min			8760 hr/yr	
EQT 0091	7-72 - No. 1 Urea UF-85 Storage Tank	14727 gallons	689078 gallons/yr	UF-85	Urea	8760 hr/yr	
EQT 0094	8-72 - Urea Barge/Ship Loading		689325 tons/yr			1904 hr/yr	
EQT 0099	3-72a - TK-101 Urea No. 1	144000 gallons				8760 hr/yr	
EQT 0100	3-72b - TK-102 Urea No. 1	67700 gallons				8760 hr/yr	
EQT 0101	3-72c - TK-108 Urea No. 1	37700 gallons				8760 hr/yr	
EQT 0102	17-75a - TK-101 Urea No. 2	214150 gallons				8760 hr/yr	
EQT 0103	17-75b - TK-102 Urea No. 2	115150 gallons				8760 hr/yr	
EQT 0104	17-75c - TK-108 Urea No. 2	78200 gallons				8760 hr/yr	
EQT 0106	2-91b - Urea Solution Tank	31739 gallons				8760 hr/yr	
EQT 0108	3-95a - Urea No. 4 Process Condensate Tank	151032 gallons	644672 gallons/yr			8760 hr/yr	
EQT 0109	3-95b - Urea No. 2 Surge Tank TK-101	161168 gallons	604128 gallons/yr			8760 hr/yr	
EQT 0111	10-72a - TK-109 Sump w/Lid Urea No. 1	1634 gallons				8760 hr/yr	
FUG 0001	10-72 - No. 1 Urea Plant Fugitives		Not applicable			8760 hr/yr	
FUG 0002	11-95 - No. 4 Urea Plant Fugitives					8760 hr/yr	
FUG 0006	3-91 - No. 3 Urea No. 1 UAN Fugitives					8760 hr/yr	
FUG 0009	34-75 - No. 2 Urea Plant Fugitives					8760 hr/yr	
RLP 0012	21-75 - No. 2 Urea Vent X-101		803000 tons/day	2200 tons/day	Urea	8760 hr/yr	
RLP 0015	3-95 - No. 4 Urea Vent (X-101)		967250 tons/yr	2650 tons/day	Urea	8760 hr/yr	
RLP 0022	6-72 - No. 1 Urea Vent X-101		529250 tons/yr	1450 tons/day	Urea	8760 hr/yr	
RLP 0025	7-91 - No. 3 Urea X-201 Vent					120 hr/yr	
Donaldsonville Nitrogen Complex							
ARE 0003	54-75 - South Pond		1095 MM gallons/yr	Wastewater	Wastewater	8760 hr/yr	
ARE 0004	55-75 - West Pond		73 MM gallons/yr	Wastewater	Wastewater	8760 hr/yr	
EQT 0061	31-75 - Pipeline Injection Station No. 2		Not applicable			1800 hr/yr	
EQT 0073	5-67 - No. 1 Pipeline Injection Station		Not applicable			1792 hr/yr	
EQT 0115	1-08 - Fire Water Pump			420 horsepower	Diesel	400 hr/yr	
FUG 0004	13-65 - Chlorine System Fugitives					8760 hr/yr	
RLP 0021	57-75 - Laboratory Hood Vents		142.13 gallons/yr	Ammonia Samples	Ammonia Samples	8760 hr/yr	
Stack Information:							
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
AMMONIA 1, 2, 3, 4							
EQT 0010	1-65 - No. 1 Ammonia Plant Reformer	50	254760	10.5		105	250
EQT 0011	1-67 - No. 2 Ammonia Plant Reformer	50	254760	10.5		105	250
EQT 0015	1-78 - Complex II Effluent Pond Sulfuric Acid Tank					77	

Page 5 of 14

TPOR0149

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-Y4
 Air - Title V Regular Permit Major Mod

Stack Information:	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
AMMONIA 1, 2, 3, 4							
EOT 0023	12-65 - No. 1 Ammonia Plant Sulfuric Acid Receiving Tank	65.6	791	.52		20	1832
EOT 0031	15-65 - Complex I Ammonia Flare					77	
EOT 0034	16-65 - Complex II Demineralization Tank					77	
EOT 0039	18-65 - No. 1 Ammonia Alkanol Amine Tank					16	
EOT 0050	22-75 - Complex II Ammonia Flare	65.6	385	.36		120	1832
EOT 0052	26-75 - Complex II Gasoline Storage Tank						77
EOT 0055	3-65 - No. 1 Ammonia Plant Start-up Heater	26	21800	4.25		76	1400
EOT 0056	3-67 - No. 2 Ammonia Plant Start-up Heater	26	21800	4.25		76	1400
EOT 0058	3-75 - No. 3 Ammonia Plant Reformer	35	275000	13		121	310
EOT 0059	3-92 - Complex II Pipeline Flare	65.6	791	.52		20	1832
EOT 0065	4-65 - Complex I Ammonia Flare	65.6	675	.5		130	1838
EOT 0072	48-75 - No. 3 & 4 Ammonia Plants Sulfuric Acid Receiving Tank	30	25800	4.25			77
EOT 0075	5-75 - No. 3 Ammonia Plant Start-up Heater					76	1400
EOT 0079	53-75 - Complex II Demineralization Tank					77	
EOT 0083	6-75 - No. 4 Ammonia Plant Reformer	35	275000	13		121	310
EOT 0088	62-75 - No. 3 Ammonia Alkanol Amine Tank						
EOT 0089	63-75 - No. 4 Ammonia Alkanol Amine Tank	30	25800	4.25		76	1400
EOT 0095	8-75 - No. 4 Ammonia Plant Start-up Heater					108	1832
RUP 0008	10-65 - No. 1 Ammonia Plant Process Gas Vent	65.6	300000	1.2		160	1832
RUP 0009	2-65 - No. 1 Ammonia Plant Hot Vent	65.6	331300	.87			
RUP 0010	2-67 - No. 2 Ammonia Plant Hot Vent	65.6	331300	.87		160	1832
RUP 0013	23-75 - No. 3 Ammonia Plant Carbon Dioxide Vent	152	28600	.2		92	125
RUP 0014	24-75 - No. 4 Ammonia Plant Carbon Dioxide Vent	152	28600	.2		92	125
RUP 0016	39-75 - No. 3 Ammonia Plant Process Gas Vent	65.6	359400	1.3		111	1832
RUP 0017	4-67 - No. 2 Ammonia Plant Carbon Dioxide Vent	130	24500	.2		92	125
RUP 0018	4-75 - No. 3 Ammonia Plant Hot Vent					161	1832
RUP 0019	40-75 - No. 4 Ammonia Plant Process Gas Vent					111	1832
RUP 0020	5-65 - No. 1 Ammonia Plant Carbon Dioxide Vent					92	125
RUP 0023	7-67 - No. 2 Ammonia Plant Process Gas Vent	65.6	300000	1.2		108	1832
RUP 0024	7-75 - No. 4 Ammonia Plant Hot Vent	65.6	397530	.95		161	1832
AMMONIUM NITRATE 1, 2							
EOT 0013	1-75 - UAN Storage Tank #301						90

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER2008003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Stack Information:	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
AMMONIUM NITRATE 1, 2							
EQT 0033 15-95 - UAN Storage Tank #817						77	
EQT 0044 2-75 - UAN Storage Tank #802						90	
EQT 0053 28-75 - UAN Storage Tank #804						80	
EQT 0054 29-75 - UAN Storage Tank #805						80	
EQT 0084 6-91 - UAN Storage Tank #816						80	
EQT 0105 2-91b - UAN Mix Tank						77	
EQT 0107 2-91c - No. 1 UAN Clean Condensate Tank						77	
EQT 0110 7-95a - UAN Mix Tank						77	
RLP 0011 2-91 - No. 1 UAN Neutralizer Vent		21.3	2260	2.4		180	140
RLP 0026 7-95 - No. 2 UAN Neutralizer/ Mix Tank Vent		58	11000	2		92	212
NITRIC ACID 1, 2, 3							
EQT 0018 1-93 - No. 2 Nitric Acid Sulfuric Acid Receiving Tank		51	48000	4.46		202	230
EQT 0047 20-75 - No. 1 Nitric Acid Plant Absorber Stack							77
EQT 0051 25-75 - No. 1 Nitric Acid Plant Tank		67	50280	4		199.5	225
EQT 0067 4-91 - No. 2 Nitric Acid Plant Absorber Stack							302
EQT 0068 4-95 - No. 3 Nitric Acid Plant Absorber Stack		85.61	100827	5		184	
EQT 0069 44-75 - No. 1 Nitric Acid Drip Acid Tank (D563)							77
EQT 0070 45-75 - No. 1 Nitric Acid Process Water Tank							77
EQT 0076 5-91 - No. 2 Nitric Acid Plant Tank							77
EQT 0077 5-95 - No. 3 Nitric Acid Plant Tank						19	77
EQT 0096 8-91 - No. 2 Nitric Acid Clean Condensate Tank						9	
UREA 1, 2, 3, 4							
ARE 0002 16-95 - Urea Warehouse Storage/Loading No. 2						70	
EQT 0012 1-72 - No. 1 Urea Boiler		57	67000	5		100	300
EQT 0017 1-91 - No. 3 Urea Boiler		37	52400	3.4		100	250
EQT 0019 1-95 - No. 4 Urea Low Pressure Absorber Vent		22.3	240	.25		213	97
EQT 0021 10-95 - No. 4 Urea Boiler		64	114000	6		118	324
EQT 0022 11-72 - No. 1 Urea Process Water Tank #104							77
EQT 0024 12-72 - No. 1 Urea Process Water Tank #106							77
EQT 0025 12-75 - No. 2 Urea Boiler A		38.5	102000	7.5		100	300
EQT 0027 13-75 - No. 2 Urea Boiler B		38.5	102000	7.5		100	300
EQT 0028 14-75 - No. 2 Urea High Pressure Scrubber		150	442	.25		214	167

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Stack Information:	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
UREA 1, 2, 3, 4							
EOT 0030 14-95 - Urea Loading Barge Dock		45	120000	7.5		104	77
EOT 0032 15-75 - No. 2 Urea Granulator Scrubber A		45	120000	7.5		104	110
EOT 0035 16-75 - No. 2 Urea Granulator Scrubber B		45	120000	7.5		104	110
EOT 0037 17-75 - No. 2 Urea Granulator Scrubber C		45	120000	7.5		104	110
EOT 0038 17-95 - No. 4 Urea/ No. 2 UAN Ammonia Flare		65.6	712	4.3		100	1838
EOT 0040 18-75 - No. 2 Urea Granulator Scrubber D		45	120000	7.5		104	110
EOT 0041 18-95 - No. 4 Urea/Sulfuric Acid Receiving Tank							77
EOT 0042 19-95 - No. 4 Urea/Relief Valve Separator (D-102)							215
EOT 0043 2-72 - No. 1 Urea High Pressure Scrubber							167
EOT 0045 2-92 - No. 2 Urea UF-85 Storage Tank							40
EOT 0046 2-95 - No. 4 Urea Granulator							77
EOT 0057 3-72 - No. 1 Urea Granulator Scrubber "A"							213
EOT 0062 36-75 - No. 2 Urea Process Water Tank #104							97
EOT 0063 37-75 - No. 2 Urea Process Water Tank #105							100
EOT 0064 38-75 - No. 2 Urea Process Water Tank #106							100
EOT 0066 4-72 - No. 1 Urea Granulator Scrubber "B"							20
EOT 0071 47-75 - Complex II Urea/UAN Ammonia Flare							77
EOT 0074 5-72 - No. 1 Urea Granulator Scrubber "C"							77
EOT 0080 56-75 - No. 1 Urea/Sulfuric Acid Receiving Tank							77
EOT 0085 6-95 - No. 4 Urea UF-85 Storage Tank							20
EOT 0091 7-72 - No. 1 Urea UF-85 Storage Tank							100
EOT 0099 3-72a - TK-101 Urea No. 1							1832
EOT 0100 3-72b - TK-102 Urea No. 1							80
EOT 0101 3-72c - TK-108 Urea No. 1							100
EOT 0102 17-75a - TK-101 Urea No. 2							77
EOT 0103 17-75b - TK-102 Urea No. 2							77
EOT 0104 17-75c - TK-108 Urea No. 2							77
EOT 0106 2-91b - Urea Solution Tank							77
EOT 0108 3-93a - Urea No. 4 Process Condensate Tank							77
EOT 0109 3-93b - Urea No. 2 Surge Tank TK-101							77
EOT 0111 10-72a - TK-109 Sump w/lid Urea No. 1							77
RIP 0012 21-75 - No. 2 Urea Vent X-101							210
							220
							220

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
UREA 1, 2, 3, 4							
RLP 0015	3-95 - No. 4 Urea Vent (X-101)	.3	120	3		215	97
RLP 0022	6-72 - No. 1 Urea Vent X-101	18	848	1		220	210
RLP 0025	7-91 - No. 3 Urea X-201 Vent	459	21624	1		180	150
Donaldsonville Nitrogen Complex							
ARE 0003	54-75 - South Pond				453600	0	77
ARE 0004	55-75 - West Pond				147000	0	77
RLP 0021	57-75 - Laboratory Hood Vents						77

Relationships:

ID	Description	Relationship	ID	Description
EQT 0037	17-75 - No. 2 Urea Granulator Scrubber C	Controls emissions from	EQT 0102	17-75a - TK-101 Urea No. 2
EQT 0037	17-75 - No. 2 Urea Granulator Scrubber C	Controls emissions from	EQT 0103	17-75b - TK-102 Urea No. 2
EQT 0037	17-75 - No. 2 Urea Granulator Scrubber C	Controls emissions from	EQT 0104	17-75c - TK-108 Urea No. 2
EQT 0057	3-72 - No. 1 Urea Granulator Scrubber "A"	Controls emissions from	EQT 0099	3-72a - TK-101 Urea No. 1
EQT 0057	3-72 - No. 1 Urea Granulator Scrubber "A"	Controls emissions from	EQT 0100	3-72b - TK-102 Urea No. 1
EQT 0057	3-72 - No. 1 Urea Granulator Scrubber "A"	Controls emissions from	EQT 0101	3-72c - TK-108 Urea No. 1
EQT 0108	3-95a - Urea No. 4 Process Condensate Tank	Vents to	RLP 0015	3-95 - No. 4 Urea Vent (X-101)
EQT 0109	3-95b - Urea No. 2 Surge Tank TK-101	Vents to	RLP 0015	3-95 - No. 4 Urea Vent (X-101)
EQT 0110	7-95a - UAN Mix Tank	Vents to	RLP 0026	7-95 - No. 2 UAN Neutralizer/ Mix Tank Vent
EQT 0111	10-72a - TK-109 Sump w/Lid Urea No. 1	Vents to	FUG 0001	10-72 - No. 1 Urea Plant Fugitives
RLP 0011	2-91 - No. 1 UAN Neutralizer Vent	Controls emissions from	EQT 0105	2-91a - UAN Mix Tank
RLP 0011	2-91 - No. 1 UAN Neutralizer Vent	Controls emissions from	EQT 0106	2-91b - Urea Solution Tank
RLP 0011	2-91 - No. 1 UAN Neutralizer Vent	Controls emissions from	EQT 0107	2-91c - No. 1 UAN Clean Condensate Tank

Subject Item Groups:

ID	Group Type	Group Description
GRP 0006	Equipment Group	14-65 - Sulfuric Acid Day Tanks
GRP 0007	Equipment Group	Cap (14-75/21-75) - Cap (No. 2 Urea High Pressure Scrubber and No. 2 Urea Vent X-101)
GRP 0008	Equipment Group	Cap (2-726-72) - Cap (No. 1 Urea High Pressure Scrubber and No. 1 Urea Vent X-101)
GRP 0021	Equipment Group	NOxCap - NOx Facility Wide Averaging Cap
PCS 0001	Process Group	Ammon - AMMONIA 1, 2, 3, 4
PCS 0002	Process Group	AmNit - AMMONIUM NITRATE 1, 2
PCS 0003	Process Group	NitAcid - NITRIC ACID 1, 2, 3
PCS 0004	Process Group	Urea - UREA 1, 2, 3, 4

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Subject Item Groups:

ID	Group Type	Group Description
SCN 0001	Alternate Operating Scenario	ALT165 - Alternate Scenario for 1-65 - No. 1 Ammonia Plant Reformer
SCN 0002	Alternate Operating Scenario	ALT167 - Alternate Scenario for 1-67 - No. 2 Ammonia Plant Reformer
SCN 0003	Alternate Operating Scenario	ALT375 - Alternate Scenario for 3-75 - No. 3 Ammonia Plant Reformer
SCN 0004	Alternate Operating Scenario	ALT675 - Alternate Scenario for 6-75 - No. 4 Ammonia Plant Reformer
SCN 0005	Alternate Operating Scenario	ALT395 - Alternate Scenario for 3-95 - No. 4 Urea
SCN 0006	Alternate Operating Scenario	ALT CO2 - Ammonia Plants Carbon Dioxide Vents
SCN 0007	Alternate Operating Scenario	Ammonium Sulfate - Ammonia Plant Startups and Shutdowns
UNF 0001	Unit or Facility Wide	CFind - Donaldsonville Nitrogen Complex

Group Membership:

ID	Description	Member of Groups
ARE 0002	16-95 - Urea Warehouse Storage/Loading No 2	PCS0000000004
ARE 0005	9-72 - No. 1 Urea Warehouse Storage/Loading	PCS0000000004
EOT 0010	1-65 - No. 1 Ammonia Plant Reformer	GRP00000000021 PCS0000000001
EOT 0011	1-67 - No. 2 Ammonia Plant Reformer	GRP00000000021 PCS0000000001
EOT 0012	1-72 - No. 1 Urea Boiler	GRP00000000021 PCS0000000004
EOT 0013	1-75 - UAN Storage Tank #801	PCS0000000002
EOT 0014	1-76 - No. 2 Urea Sulfuric Acid Receiving tank	PCS0000000001
EOT 0015	1-78 - Complex II Effluent Pond Sulfuric Acid Tank	PCS0000000004
EOT 0016	1-89 - No. 2 Urea Water Separator Drum (D-124)	PCS0000000004
EOT 0017	1-91 - No. 3 Urea Boiler	PCS0000000003
EOT 0018	1-93 - No. 2 Nitric Acid Sulfuric Acid Receiving Tank	PCS0000000004
EOT 0019	1-95 - No. 4 Urea Low Pressure Absorber Vent	PCS0000000003
EOT 0020	10-91 - No. 2 Nitric Acid Cooling Tower (C-401)	GRP00000000021 PCS0000000004
EOT 0021	10-95 - No. 4 Urea Boiler	PCS0000000004
EOT 0022	11-72 - No. 1 Urea Process Water Tank #104	PCS0000000001
EOT 0023	12-65 - No. 1 Ammonia Plant Sulfuric Acid Receiving Tank	PCS0000000004
EOT 0024	12-72 - No. 1 Urea Process Water Tank #106	GRP0000000003 PCS0000000004
EOT 0025	12-75 - No. 2 Urea Boiler A	PCS0000000004
EOT 0026	13-72 - No. 1 Urea Process Water Tank #105	PCS0000000004
EOT 0027	13-75 - No. 2 Urea Boiler B	GRP00000000021 PCS0000000004
EOT 0028	14-72 - No. 1 Urea Cooling Tower (C-301)	PCS0000000004
EOT 0029	14-75 - No. 2 Urea High Pressure Scrubber	GRP0000000007 PCS0000000004
EOT 0030	14-85 - Urea Loading Barge Dock	PCS0000000004
EOT 0031	15-65 - Complex I Ammonia Flare	PCS0000000001
EOT 0032	15-75 - No. 2 Urea Granulator Scrubber A	PCS0000000004
EOT 0033	15-95 - UAN Storage Tank #817	PCS0000000002
EOT 0034	16-65 - Complex I Derivatralization Tank	PCS0000000001
EOT 0035	16-75 - No. 2 Urea Granulator Scrubber B	PCS0000000004

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER2008003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group Membership:

Group Membership:	ID	Description	Member of Groups
	EQT 0036	17-65 - No. 1 Ammonia Cooling Tower (CT-2201U)	PCS00000000001
	EQT 0037	17-75 - No. 2 Urea Granulator Scrubber C	PCS00000000004
	EQT 0038	17-95 - No. 2 UAN Ammonia Flare	PCS00000000004
	EQT 0039	18-65 - No. 1 Ammonia Alkalant Amine Tank	PCS00000000001
	EQT 0040	18-75 - No. 2 Urea Granulator Scrubber D	PCS00000000004
	EQT 0041	18-95 - No. 4 Urea Sulfuric Acid Receiving Tank	PCS00000000004
	EQT 0042	19-95 - No. 4 Urea Relief Valve Separator (D-102)	PCS00000000004
	EQT 0043	2-72 - No. 1 Urea High Pressure Scrubber	GRP00000000008, PCS00000000004
	EQT 0044	2-75 - UAN Storage Tank #802	PCS00000000002
	EQT 0045	2-92 - No. 2 Urea UF-85 Storage Tank	PCS00000000004
	EQT 0046	2-95 - No. 4 Urea Granulator	PCS00000000004
	EQT 0047	20-75 - No. 1 Nitric Acid Plant Absorber Slack	PCS00000000003
	EQT 0048	20-95 - No. 3 Nitric Acid Cooling Tower (CT-301)	PCS00000000003
	EQT 0049	21-95 - No. 4 Urea Cooling Tower (CT-301)	PCS00000000004
	EQT 0050	22-75 - Complex II Ammonia Flare	PCS00000000001
	EQT 0051	25-75 - No. 1 Nitric Acid Plant Tank	PCS00000000003
	EQT 0052	26-75 - Complex II Gasoline Storage Tank	PCS00000000001
	EQT 0053	28-75 - UAN Storage Tank #804	PCS00000000002
	EQT 0054	29-75 - UAN Storage Tank #805	PCS00000000002
	EQT 0055	3-65 - No. 1 Ammonia Plant Start-up Heater	PCS00000000001
	EQT 0056	3-67 - No. 2 Ammonia Plant Start-up Heater	PCS00000000001
	EQT 0057	3-72 - No. 1 Urea Granulator Scrubber "A"	GRP00000000021, PCS00000000001, SCN00000000003
	EQT 0058	3-75 - No. 3 Ammonia Plant Reformer	PCS00000000001
	EQT 0059	3-92 - Complex II Pipeline Flare	PCS00000000001
	EQT 0060	30-75 - Ammonia/UAN Barge Loading (Liquid Products Dock)	PCS00000000001
	EQT 0062	36-75 - No. 2 Urea Process Water Tank # 104	PCS00000000004
	EQT 0063	37-75 - No. 2 Urea Process Water Tank # 105	PCS00000000004
	EQT 0064	38-75 - No. 2 Urea Process Water Tank # 106	PCS00000000004
	EQT 0065	4-65 - Complex I Ammonia Flare	PCS00000000001
	EQT 0066	4-72 - No. 1 Urea Granulator Scrubber "B"	PCS00000000004
	EQT 0067	4-91 - No. 2 Nitric Acid Plant Absorber Slack	PCS00000000003
	EQT 0068	4-95 - No. 3 Nitric Acid Plant Absorber Slack	PCS00000000003
	EQT 0069	44-75 - No. 1 Nitric Acid Drip Acid Tank (D503)	PCS00000000003
	EQT 0070	45-75 - No. 1 Nitric Acid Process Water Tank	PCS00000000003
	EQT 0071	47-75 - Complex II Urea/UAN Ammonia Flare	PCS00000000004
	EQT 0072	48-75 - No. 3 & 4 Ammonia Plants Sulfuric Acid Receiving Tank	PCS00000000001
	EQT 0074	5-72 - No. 1 Urea Granulator Scrubber "C"	PCS00000000004
	EQT 0075	5-75 - No. 3 Ammonia Plant Start-up Heater	PCS00000000001
	EQT 0076	5-91 - No. 2 Nitric Acid Plant Tank	PCS00000000003
	EQT 0077	5-95 - No. 3 Nitric Acid Plant Tank	PCS00000000003
	EQT 0078	51-75 - No. 1 Nitric Acid Reclaim Tank	PCS00000000003

Page 11 of 14

TPOR0149

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER2008003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group Membership:	ID	Description	Member of Groups
	EOT 0079	53-75 - Complex II Demineralization Tank	PCS00000000001
	EOT 0080	56-75 - No. 1 Urea Sulfuric Acid Receiving Tank	PCS00000000004
	EOT 0081	58-75 - No. 3 Ammonia Cooling Tower (CT-2201UA)	PCS00000000001
	EOT 0082	59-75 - No. 4 Ammonia Cooling Tower (CT-2201UB)	PCS00000000001
	EOT 0083	6-75 - No. 4 Ammonia Plant Reformer	GRP00000000021, PCS00000000004
	EOT 0084	6-91 - UAN Storage Tank #816	PCS00000000002
	EOT 0085	6-95 - No. 4 Urea UF-85 Storage Tank	PCS00000000004
	EOT 0086	60-75 - No. 1 Nitric Acid Cooling Tower (CT-301)	PCS00000000003
	EOT 0087	61-75 - No. 2 Urea Cooling Tower (CT-301)	PCS00000000004
	EOT 0088	62-75 - No. 3 Ammonia Alkanol Amine Tank	PCS00000000001
	EOT 0089	63-75 - No. 4 Ammonia Alkanol Amine Tank	PCS00000000001
	EOT 0090	7-65 - Ammonia Ship Loading	PCS00000000001
	EOT 0091	7-72 - No. 1 Urea UF-85 Storage Tank	PCS00000000004
	EOT 0093	8-67 - No. 2 Ammonia Plant Sulfuric Acid Receiving Tank	PCS00000000001
	EOT 0094	8-72 - Urea Barge/Ship Loading	PCS00000000004
	EOT 0095	8-75 - No. 4 Ammonia Plant Start-up Heater	PCS00000000001
	EOT 0096	8-91 - No. 2 Nitric Acid Clean Condensate Tank	PCS00000000003
	EOT 0097	9-67 - No. 2 Ammonia Cooling Tower (CT-2201U)	PCS00000000001
	EOT 0098	9-95 - No. 3 Nitric Acid Clean Condensate Tank	PCS00000000003
	EOT 0099	3-72a - TK-101 Urea No. 1	PCS00000000004
	EOT 0100	3-72b - TK-102 Urea No. 1	PCS00000000004
	EOT 0101	3-72c - TK-108 Urea No. 1	PCS00000000004
	EOT 0102	17-75a - TK-101 Urea No. 2	PCS00000000004
	EOT 0103	17-75b - TK-102 Urea No. 2	PCS00000000004
	EOT 0104	17-75c - TK-108 Urea No. 2	PCS00000000004
	EOT 0105	2.91a - UAN Mix Tank	PCS00000000002
	EOT 0106	2.91b - Urea Solution Tank	PCS00000000004
	EOT 0107	2.91c - No. 1 UAN Clean Condensate Tank	PCS00000000002
	EOT 0108	3-95a - Urea No. 4 Process Condensate Tank	PCS00000000004
	EOT 0109	3.95b - Urea No. 2 Surge Tank TK-101	PCS00000000004
	EOT 0110	7.95a - UAN Mix Tank	PCS00000000002
	EOT 0111	10-72a - TK-109 Sump w/Lid Urea No. 1	PCS00000000004
	EOT 0112	1-06 - NH3 Complex 2 Emergency Generator	PCS00000000001
	EOT 0113	1-07 - Air Compressor, Ammonia 1 and 2	PCS00000000001
	EOT 0114	2.07 - Air Compressor, Ammonia 3 and 4	PCS00000000001
	FUG 0001	10-72 - No. 1 Urea Plant Fugitives	PCS00000000004
	FUG 0002	11-95 - No. 4 Urea Plant Fugitives	PCS00000000003
	FUG 0003	12-95 - No. 3 Nitric Acid Plant No. 2 UAN Fugitives	PCS00000000001
	FUG 0005	27-75 - Complex II Ammonia/UAN Railcar Storage and Loading	PCS00000000004
	FUG 0006	3-91 - No. 3 Urea No. 1 UAN Fugitives	PCS00000000001
	FUG 0007	32-75 - No. 3 Ammonia Plant Fugitives	PCS00000000001

Page 12 of 14

TPOR0149

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group Membership:

Group Membership	ID	Description	Member of Groups
FUG 0008	133-75 - No. 4 Ammonia Plant Fugitives	PCS0000000001	
FUG 0009	34-75 - No. 2 Urea Plant Fugitives	PCS0000000004	
FUG 0010	35-75 - No. 1 Nitric Acid Plant Fugitives	PCS0000000003	
FUG 0011	52-75 - No. 3 & 4 Ammonia Plant Methanol Fugitives	PCS0000000001	
FUG 0012	6-67 - No. 2 Ammonia Plant Fugitives	PCS0000000001	
FUG 0013	9-65 - No. 1 Ammonia Plant Fugitives	PCS0000000001	
FUG 0014	9-91 - No. 2 Nitric Acid Plant Fugitives	PCS0000000003	
FUG 0015	8-65 - Complex Ammonia Storage & Railcar Loading	PCS0000000001	
GRP 0007	Cap (14-75/21-75) - Cap (No. 2 Urea High Pressure Scrubber and No. 2 Urea Vent X-101)	PCS0000000004	
GRP 0008	Cap (2-72/6-72) - Cap (No. 1 Urea High Pressure Scrubber and No. 1 Urea Vent X-101)	PCS0000000004	
RLP 0008	10-65 - No. 1 Ammonia Plant Process Gas Vent	PCS0000000001, SCN0000000007	
RLP 0009	2-65 - No. 1 Ammonia Plant Hot Vent	PCS0000000001, SCN0000000007	
RLP 0010	2-67 - No. 2 Ammonia Plant Hot Vent	PCS0000000001, SCN0000000007	
RLP 0011	2-91 - No. 1 UAN Neutralizer Vent	PCS0000000002	
RLP 0012	21-75 - No. 2 Urea Vent X-101	GRP0000000007, PCS0000000004	
RLP 0013	23-75 - No. 3 Ammonia Plant Carbon Dioxide Vent	PCS0000000001, SCN0000000006	
RLP 0014	24-75 - No. 4 Ammonia Plant Carbon Dioxide Vent	PCS0000000001, SCN0000000006	
RLP 0015	3-95 - No. 4 Urea Vent (X-101)	PCS0000000004, SCN0000000005	
RLP 0016	39-75 - No. 3 Ammonia Plant Process Gas Vent	PCS0000000001, SCN0000000007	
RLP 0017	4-67 - No. 2 Ammonia Plant Carbon Dioxide Vent	PCS0000000001, SCN0000000006	
RLP 0018	4-75 - No. 3 Ammonia Plant Hot Vent	PCS0000000001, SCN0000000007	
RLP 0019	40-75 - No. 4 Ammonia Plant Process Gas Vent	PCS0000000001, SCN0000000007	
RLP 0020	5-65 - No. 1 Ammonia Plant Carbon Dioxide Vent	PCS0000000001, SCN0000000006	
RLP 0022	6-72 - No. 1 Urea Vent X-101	GRP0000000008, PCS0000000004	
RLP 0023	7-67 - No. 2 Ammonia Plant Process Gas Vent	PCS0000000001, SCN0000000007	
RLP 0024	7-75 - No. 4 Ammonia Plant Hot Vent	PCS0000000001, SCN0000000007	
RLP 0025	7-91 - No. 3 Urea X-201 Vent	PCS0000000004	
RLP 0026	7-95 - No. 2 UAN Neutralizer/Mix Tank Vent	PCS0000000002	
SCN 0001	ALT165 - Alternate Scenario for 1-65 - No. 1 Ammonia Plant Reformer	PCS0000000001	
SCN 0002	ALT167 - Alternate Scenario for 1-67 - No. 2 Ammonia Plant Reformer	PCS0000000001	
SCN 0003	ALT375 - Alternate Scenario for 3-75 - No. 3 Ammonia Plant Reformer	PCS0000000001	
SCN 0004	ALT675 - Alternate Scenario for 6-75 - No. 4 Ammonia Plant Reformer	PCS0000000001	
SCN 0005	ALT395 - Alternate Scenario for 3-95 - No. 4 Urea	PCS0000000004	

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
0650	0650 Fertilizer Manufacture (Rated Capacity)	1269	M ton/yr
0520	0520 Nitric Acid Manufacture (Rated Capacity)	965.75	M ton/yr

Page 13 of 14

TPOR0149

INVENTORIES

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-000004-V4
Air - Title V Regular Permit Major Mod

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0660	0660 Urea and Ureform (Rated Capacity)	2765	M ton/yr
0640	0640 Ammonia Manufacture (Rated Capacity)	68.0	tons/day

SIC Codes:

2819	Industrial inorganic chemicals, nec	PCS 003
2873	Nitrogenous fertilizers	AI 2416
2873	Nitrogenous fertilizers	PCS 001
2873	Nitrogenous fertilizers	PCS 002
2873	Nitrogenous fertilizers	PCS 004
2873	Nitrogenous fertilizers	UNF 001

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER2008003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

All phases

Subject Item	CO		NOx		PM10		SO2		VOC			
	Avg lb/hr	Max lb/hr	Tons/Year									
AMMONIA 1, 2, 3, 4												
EQT 0010 1-65	68.79	303.47	301.29	141.22	606.44	618.55	6.04	6.83	26.46	0.48	0.54	2.09
EQT 0011 1-67	68.79	303.47	301.29	141.22	606.44	618.55	6.04	6.83	26.46	0.48	0.54	2.09
EQT 0031 15-65	0.07	0.09	0.30	0.08	0.10	0.35	0.006	0.008	<0.001	<0.001	<0.01	0.004
EQT 0036 17-65							2.95	3.53	12.90			
EQT 0039 18-65											0.003	0.20
EQT 0050 22-75	0.03	0.03	0.15	0.04	0.04	0.18	0.003	0.003	<0.001	0.001	0.002	0.002
EQT 0052 26-75											0.18	20.30
EQT 0055 3-65	3.06	3.06	0.02	3.64	3.64	0.02	0.28	0.28	0.002	0.02	<0.01	0.20
EQT 0056 3-67	3.06	3.06	0.02	3.64	3.64	0.02	0.28	0.28	0.002	0.02	<0.001	0.20
EQT 0058 3-75	74.18	333.80	324.90	151.07	667.05	664.02	6.64	6.83	29.10	0.52	0.54	2.30
EQT 0059 3-92	0.068	0.085	0.007	0.081	0.101	0.008	0.006	0.008	<0.001	<0.001	0.004	0.006
EQT 0065 4-65	0.06	0.06	0.25	0.07	0.07	0.30	0.005	0.005	0.023	<0.001	0.002	0.004
EQT 0075 5-75	3.54	3.55	0.02	4.22	4.22	0.03	0.32	0.32	0.002	0.03	<0.001	0.23
EQT 0081 58-75							3.09	3.71	13.52			
EQT 0082 59-75							3.09	3.71	13.52			
EQT 0083 6-75	74.18	333.80	324.90	151.07	667.05	664.02	6.64	6.83	29.10	0.52	0.54	2.30
EQT 0088 62-75											0.002	0.19
EQT 0089 63-75											0.002	0.19
EQT 0095 6-75	3.54	3.55	0.02	4.22	4.23	<0.03	0.32	0.32	0.002	0.03	<0.001	0.23
EQT 0097 9-67							2.95	3.53	12.90			
EQT 0112 1-66	4.15	5.19	1.25	11.49	11.49	3.45	0.53	0.66	0.20		0.53	0.67
EQT 0113 1-67	3.17	3.97	0.63	14.73	18.41	2.95	1.10	1.30	0.20		1.20	1.50

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER2008003

Permit Number: 0180-000004-V4

Air - Title V Regular Permit Major Mod

All phases

Subject Item	CO		NOx		PM10		SO2		VOC	
	Avg lb/hr	Max lb/hr	Avg lb/hr	Tons/Year						
AMMONIA 1, 2, 3, 4										
ECOT 0114 2-07	3.17	3.97	0.63	14.73	18.41	2.95	1.05	1.31	0.21	
FUG 0011 52-75										
RLP 0008 10-35	0.009	0.01	0.04	0.022	0.024	0.095	0.002	0.008	<0.001	0.001
RLP 0009 2-65	0.009	0.010	0.04	0.022	0.024	0.10	0.002	0.01	<0.001	0.001
RLP 0010 2-67	0.009	0.01	0.04	0.022	0.024	0.10	0.002	0.008	<0.001	0.001
RLP 0013 23-75	1.50	5.59	6.55							
RLP 0014 24-75	1.50	5.59	6.55							
RLP 0016 39-75	0.01	0.01	0.04	0.022	0.024	0.10	0.002	0.008	<0.001	0.001
RLP 0017 4-67	1.36	5.08	5.95							
RLP 0018 4-75	0.009	0.01	0.04	0.022	0.024	0.10	0.002	0.008	<0.001	0.001
RLP 0019 40-75	0.009	0.01	0.04	0.022	0.024	0.10	0.002	0.008	<0.001	0.001
RLP 0020 5-65	1.36	5.08	5.95							
RLP 0023 7-67	0.009	0.01	0.04	0.022	0.024	0.10	0.002	0.008	<0.001	0.001
RLP 0024 7-75	0.009	0.01	0.04	0.022	0.024	0.10	0.002	0.008	<0.001	0.001
SCN 0001 AL1165										
SCN 0002 AL1167										
SCN 0003 AL1375										
SCN 0004 AL1765										
AMMONIUM NITRATE 1, 2										
RLP 0011 2-91										
NITRIC ACID 1, 2, 3										
EQT 0020 10-91										

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

All phases

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
NITRIC ACID 1,2,3															
EQT 0047 20-95				75.63	90.75	334.75									
						196.63									
EQT 0048 20-95							0.37	0.44	1.62						
EQT 0051 25-75				0.018	0.018	0.08									
EQT 0067 4-91				30.48	75.00	135.97									
						206.25									
EQT 0068 4-95				40.53	384.50	183.18									
						171.25									
EQT 0069 4-75				<0.001	<0.001	<0.001									
EQT 0076 5-91				0.018	0.018	0.08									
EQT 0077 5-95				0.011	0.011	0.05									
EQT 0078 5-175				<0.001	<0.001	<0.01									
EQT 0086 60-75							0.76	0.91	3.33						
FUG 0003 12-95				0.23	0.23	1.00									
FUG 0010 35-75				0.23	0.23	1.00									
FUG 0014 9-91				0.23	0.23	1.00									
UREA 1,2,3,4															
ARE 0002 16-95							0.11	0.30	0.46						
ARE 0005 9-72							0.22	0.39	0.95						
EOT 0012 1-72	18.23	19.93	79.86	38.50	46.20	168.60	1.65	1.80	7.23	0.13	0.14	0.57	1.19	1.31	5.23
EOT 0017 1-91	8.80	10.11	38.52	10.68	12.28	46.78	0.80	0.92	3.49	0.063	0.072	0.28	0.58	0.66	2.52
EQT 0021 10-95	18.27	36.06	80.02	32.58	37.47	142.70	2.43	2.79	10.63	0.19	0.22	0.84	1.76	2.02	7.70

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

All phases

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
UREA 1,2,3,4															
EQT 0025 12.75	14.43	16.63	63.20	21.53	25.83	94.40	1.31	1.50	5.72	0.10	0.12	0.45	0.95	1.09	4.14
EQT 0027 13.75	14.43	16.63	63.20	21.53	25.83	94.40	1.31	1.50	5.72	0.10	0.12	0.45	0.95	1.09	4.14
EQT 0028 14.72							1.28	1.54	5.62						
EQT 0030 14.95							0.11	0.44	0.49						
EQT 0032 15.75							11.00	13.20	48.20				0.55	0.92	2.40
EQT 0035 16.75							11.00	13.20	48.20				0.55	0.92	2.40
EQT 0037 17.75							11.00	13.20	48.20				0.55	0.92	2.40
EQT 0038 17.95	0.058	0.059	0.25	0.069	0.071	0.30	0.005	0.005	0.02	<0.001	<0.001	0.004	0.004	0.004	0.017
EQT 0040 19.75							11.00	13.20	48.20				0.55	0.92	2.40
EQT 0045 2.92													0.01	0.46	0.05
EQT 0046 2.95							30.90	46.40	135.30				2.40	6.07	10.50
EQT 0049 21.95							0.68	0.92	2.98						
EQT 0057 3.72							10.40	12.50	45.60				0.48	0.81	2.10
EQT 0066 4.72							10.40	12.50	45.60				0.48	0.81	2.10
EQT 0071 47.75	0.068	0.085	0.007	0.081	0.101	0.008	0.006	0.008	<0.001	<0.001	<0.001	0.004	0.006	<0.001	
EQT 0074 5.72							10.40	12.50	45.60				0.48	0.81	2.10
EQT 0085 6.85													0.01	0.46	0.05
EQT 0087 6.75															
EQT 0091 7.72													0.01	0.37	0.004
EQT 0094 8.72															
FUG 0001 10.72							0.16	0.88	0.70						
FUG 0002 11.95							0.06	0.06	0.26				0.31	0.31	1.34
													0.25	0.25	1.08

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

All phases

Subject Item	CO		NOx		PM10		SO2		VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
UREA 1, 2, 3, 4 FUG 0009 34-75											
Donaldsonville Nitrogen Complex											
EQT 0115 1-08	2.41	0.48	6.68	6.68	1.34	0.37	0.37	0.40	0.09	0.09	0.40
SCN 0007 Ammon SU/SD	3.48	86.60	2.60	282.75	8.48	282.75	4.55	4.55	0.32	0.32	0.01
	86.60	3.48	0.10				0.32	4.55	0.14		

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emission rates Notes:

ARE 0002	PM10	Avg lb/hr	Includes emission rates during Truck and Railroad Car Loading	Which Months: All Year
ARE 0002	PM10	Max lb/hr	Includes emission rates during Truck and Railroad Car Loading	Which Months: All Year
ARE 0005	PM10	Avg lb/hr	Includes emission rates during Truck and Railroad Car Loading	Which Months: All Year
ARE 0005	PM10	Max lb/hr	Includes emission rates during Truck and Railroad Car Loading	Which Months: All Year
EQT 0010	PM10	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	PM10	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	PM10	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0010	SO2	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	SO2	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	SO2	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0010	CO	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	CO	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	CO	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0010	VOC	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	VOC	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	VOC	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0011	PM10	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	PM10	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	PM10	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0011	SO2	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER2008003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

All phases

EQT 0011	SO2	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	SO2	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0011	CO	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	CO	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	CO	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0011	VOC	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	VOC	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	VOC	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0046	PM10	Max lb/hr	per PSD-LA-594	Which Months: All Year
EQT 0046	PM10	Tons/Year	196.63 lb/hr. (Approximately 675 ppm NOx maximum concentration)	During Startup of the nitric acid train. In accordance with 40 CFR 60.73(e) For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions shall be reported and are defined as any 3-hour period during which the average nitrogen oxides emissions (arithmetic average of three contiguous 1-hour periods) as measured by a continuous monitoring system exceeds the standard under 40 CFR 60.72(a).
EQT 0047	NOx	Max lb/hr	90.75 lb/hr. During normal operation of the nitric acid train	Which Months: All Year
EQT 0047	NOx	Tons/Year	This limitation includes 3.50 tpy from 24 hours of startup emissions allowed	Which Months: All Year
EQT 0058	PM10	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	PM10	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	PM10	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0058	SO2	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	SO2	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	SO2	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0058	CO	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	CO	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	CO	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0058	VOC	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	VOC	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	VOC	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0067	NOx	Max lb/hr	206.25 lb/hr. (Approximately 675 ppm NOx maximum concentration)	During Startup of the nitric acid train. In accordance with 40 CFR 60.73(e) For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions shall be reported and are defined as any 3-hour period during which the average nitrogen oxides emissions (arithmetic average of three contiguous 1-hour periods) as measured by a continuous monitoring system exceeds the standard under 40 CFR 60.72(a).
				Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER2008003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

All phases

EQT 0067	NOx	Max lb/hr	75.00 lb/hr. During normal operation of the nitric acid train	Which Months: All Year
EQT 0067	NOx	Tons/Year	This limitation includes 2.48 tpy from 24 hours of startup emissions allowed	Which Months: All Year
EQT 0068	NOx	Max lb/hr	171.25 lbs/hr during normal operations	Which Months: All Year
EQT 0068	NOx	Max lb/hr	384.50 lb/hr. (Approximately 630 ppm NOx maximum concentration). During Startup of the nitric acid train. In accordance with 40 CFR 60.73(e) For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions shall be reported and are defined as any 3-hour period during which the average nitrogen oxides emissions (arithmetic average of three contiguous 1-hour periods) as measured by a continuous monitoring system exceeds the standard under 40 CFR 60.72(a).	Which Months: All Year
EQT 0068	NOx	Tons/Year	This limitation includes 5.68 tpy from 24 hours of startup emissions allowed	Which Months: All Year
EQT 0083	PM10	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	PM10	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	PM10	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0083	SO2	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	SO2	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	SO2	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0083	CO	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	CO	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	CO	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0083	VOC	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	VOC	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	VOC	Tons/Year	For all alternate operating scenarios	Which Months: All Year
SCN 0001	NOx	Avg lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0001	NOx	Max lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0001	NOx	Tons/Year	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0002	NOx	Avg lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0002	NOx	Max lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0002	NOx	Tons/Year	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0003	NOx	Avg lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0003	NOx	Max lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0003	NOx	Tons/Year	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER2008003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

All Phases

SCN 0004	NOx	Avg lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0004	NOx	Max lb/hr	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel	Which Months: All Year
SCN 0004	NOx	Tons/Year	when the Low Pressure Purge Gas Recovery Unit (LPPGRU) is down and purge gas is burned as fuel. The pound per hour (lb/hr) emission rate for NOx exceeds the average lb/hr rate. Because the reformer is permitted for continuous operation, the average normal lb/hr rate was subtracted from the lb/hr rate using process gas as fuel, to calculate this total emission increase in tons per year for 120 hours	Which Months: All Year
SCN 0007	PM10	Avg lb/hr	0.32 lbs/hr. From the startup or shutdown of any single Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	PM10	Avg lb/hr	4.55 lbs/hr. From the startup or shutdown of any single Ammonia Plant Hot Vent	Which Months: All Year
SCN 0007	PM10	Max lb/hr	0.32 lbs/hr. From the startup or shutdown of any single Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	PM10	Max lb/hr	4.55 lbs/hr. From the startup or shutdown of any single Ammonia Plant Hot Vent	Which Months: All Year
SCN 0007	PM10	Tons/Year	0.01 tpy. From the startup or shutdown of any single Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	PM10	Tons/Year	0.14 tpy. From the startup or shutdown of any single Ammonia Plant Hot Vent	Which Months: All Year
SCN 0007	NOx	Avg lb/hr	282.75 lbs/hr each. From the startup or shutdown of any single Ammonia Plant Hot Vent and Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	NOx	Max lb/hr	282.75 lbs/hr each. From the startup or shutdown of any single Ammonia Plant Hot Vent and Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	NOx	Tons/Year	8.48 tpy each. From the startup or shutdown of any single Ammonia Plant Hot Vent and Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	CO	Avg lb/hr	3.48 lbs/hr. From the startup or shutdown of any single Ammonia Plant Hot Vent	Which Months: All Year
SCN 0007	CO	Avg lb/hr	86.60 lbs/hr. From the startup or shutdown of any single Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	CO	Max lb/hr	3.48 lbs/hr. From the startup or shutdown of any single Ammonia Plant Hot Vent	Which Months: All Year
SCN 0007	CO	Max lb/hr	86.60 lbs/hr. From the startup or shutdown of any single Ammonia Plant Hot Vent	Which Months: All Year
SCN 0007	CO	Tons/Year	0.10 tpy. From the startup or shutdown of any single Ammonia Plant Process Gas Vent	Which Months: All Year
SCN 0007	CO	Tons/Year	2.60 tpy. From the startup or shutdown of any single Ammonia Plant Hot Vent	Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Phase II

SO2					
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year		
AMMONIA 1, 2, 3, 4					
EQT 0112 1-06	0.31	0.38	0.09		
EQT 0113 1-07	0.10	0.12	0.02		
EQT 0114 2-07	0.10	0.12	0.02		
Donaldsonville Nitrogen Complex					
EQT 0115 1-08	0.09	0.11	0.02		

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emission rates Notes:

EQT 0112	SO2	Avg lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0112	SO2	Max lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0112	SO2	Tons/Year	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0113	SO2	Avg lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0113	SO2	Max lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0113	SO2	Tons/Year	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0114	SO2	Avg lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0114	SO2	Max lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0114	SO2	Tons/Year	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0115	SO2	Avg lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0115	SO2	Max lb/hr	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year
EQT 0115	SO2	Tons/Year	Using diesel fuel with a maximum of 500 ppm sulfur per NSPS Subpart III	Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER2008003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Phase III

SO2	
Subject Item	Avg lb/hr
AMMONIA 1, 2, 3, 4	Max lb/hr
EOT 0112	0.01
EOT 0113	0.003
EOT 0114	0.004
EOT 0115	0.003
EOT 0116	0.003

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emissions Notes:

EOT 0112	SO2	Avg lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0112	SO2	Max lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0112	SO2	Tons/year	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0113	SO2	Avg lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0113	SO2	Max lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0113	SO2	Tons/year	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0114	SO2	Avg lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0114	SO2	Max lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0114	SO2	Tons/year	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0115	SO2	Avg lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0115	SO2	Max lb/hr	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year
EOT 0115	SO2	Tons/year	Using diesel fuel with a maximum of 15 ppm sulfur per NSPS Subpart III	Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0003 54-75	Ammonia	5.40	8.20	23.70
ARE 0004 55-75	Ammonia	1.87	2.39	8.20
EQT 0010 1-65	Ammonia	1.00	1.00	4.00
	Methanol	1.00	1.00	4.00
EQT 0011 1-67	Ammonia	1.00	1.00	4.00
	Methanol	1.00	1.00	4.00
EQT 0013 1-75	Ammonia	0.033	0.12	0.14
EQT 0014 1-76	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0015 1-78	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0016 1-89	Ammonia	<0.001	<0.001	<0.001
EQT 0018 1-93	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0019 1-95	Ammonia	1.10	2.30	4.80
EQT 0022 11-72	Ammonia	0.001	0.010	0.006
EQT 0023 12-65	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0024 12-72	Ammonia	0.003	0.004	0.008
EQT 0026 13-72	Ammonia	<0.001	<0.001	0.002
EQT 0029 14-75	Ammonia		183.34	
EQT 0032 15-75	Ammonia	55.00	66.00	240.90
	Methanol	0.55	0.92	2.40
EQT 0033 15-95	Ammonia	0.13	0.13	0.58
EQT 0034 16-65	Ammonia	<0.001	<0.001	<0.01
EQT 0035 16-75	Ammonia	55.00	66.00	240.90
	Methanol	0.55	0.92	2.40
EQT 0037 17-75	Ammonia	80.00	101.00	350.40
	Methanol	0.55	0.92	2.40
EQT 0040 18-75	Ammonia	80.00	101.00	350.40
	Methanol	0.55	0.92	2.40
EQT 0041 18-95	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0042 19-95	Ammonia	236.60	236.60	14.20
EQT 0043 2-72	Ammonia		181.20	
EQT 0044 2-75	Ammonia	0.033	0.12	0.14
EQT 0045 2-92	Formaldehyde	<0.001	0.04	0.001
	Methanol	<0.001	0.01	<0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EOT 0046 2-95	Ammonia	109.10	165.60	477.10
	Methanol	2.40	6.07	10.50
EOT 0051 25-75	Nitric acid	0.014	0.014	0.06
EOT 0052 26-75	2,2,4-Trimethylpentane	0.001	0.16	0.01
	Benzene	0.002	0.18	0.009
	Ethyl benzene	<0.001	0.02	0.001
	Polynuclear Aromatic Hydrocarbons	<0.001	0.01	<0.001
	Toluene	0.002	0.26	0.009
	Xylene (mixed isomers)	<0.001	0.10	0.004
	n-Hexane	0.003	0.32	0.013
EOT 0053 26-75	Ammonia	0.05	0.100	0.23
EOT 0054 26-75	Ammonia	0.05	0.10	0.23
EOT 0057 3-72	Ammonia	73.30	143.00	321.20
	Methanol	0.48	0.81	2.10
EOT 0058 3-75	Ammonia	1.00	1.00	4.00
	Methanol	1.00	1.00	4.00
EOT 0060 30-75	Ammonia	0.24	0.24	1.06
EOT 0061 31-75	Ammonia	0.11	0.11	0.10
EOT 0062 36-75	Ammonia	0.010	0.010	0.044
EOT 0063 37-75	Ammonia	0.001	0.001	0.004
EOT 0064 38-75	Ammonia	<0.001	<0.001	<0.001
EOT 0066 4-72	Ammonia	48.30	58.00	211.70
	Methanol	0.48	0.81	2.10
EOT 0067 4-91	Ammonia	1.69	3.39	7.42
EOT 0068 4-85	Ammonia	3.26	6.51	14.26
EOT 0069 44-75	Nitric acid	<0.001	<0.001	<0.001
EOT 0070 45-75	Ammonia	<0.001	<0.001	<0.001
	Nitric acid	<0.001	<0.001	<0.001
EOT 0072 48-75	Sulfuric acid	<0.001	<0.001	<0.001
EOT 0073 5-87	Ammonia	0.11	0.11	0.10
EOT 0074 5-72	Ammonia	48.30	58.00	211.70
	Methanol	0.48	0.81	2.10
EOT 0076 5-91	Nitric acid	0.022	0.022	0.094

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex,

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0077 5-95	Nitric acid	0.08	0.08	0.36
EQT 0078 51-75	Nitric acid	0.002	0.002	0.006
EQT 0079 53-75	Ammonia	<0.001	<0.001	<0.001
EQT 0080 56-75	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0083 6-75	Ammonia	1.00	1.00	4.00
	Methanol	1.00	1.00	4.00
EQT 0084 6-81	Ammonia	0.05	0.12	0.23
EQT 0085 6-95	Formaldehyde	<0.001	0.04	<0.001
	Methanol	<0.001	0.01	<0.001
EQT 0090 7-65	Ammonia	0.24	0.24	1.04
EQT 0091 7-72	Formaldehyde	<0.001	0.03	0.004
	Methanol	<0.001	0.01	<0.001
EQT 0093 8-67	Sulfuric acid	<0.001	<0.001	<0.001
EQT 0096 8-91	Ammonia	<0.001	<0.001	<0.001
	Nitric acid	<0.001	<0.001	<0.001
EQT 0098 9-85	Ammonia	<0.001	<0.001	<0.001
FUG 0001 10-72	Ammonia	2.40	2.40	10.60
	Formaldehyde	0.09	0.09	0.40
	Methanol	0.001	0.001	<0.01
FUG 0002 11-85	Ammonia	2.40	2.40	10.60
	Formaldehyde	0.07	0.07	0.32
	Methanol	<0.001	<0.001	<0.01
FUG 0003 12-85	Ammonia	0.73	0.73	3.21
FUG 0004 13-65	Chlorine	0.26	0.26	1.20
FUG 0005 27-75	Ammonia	2.67	2.67	11.68
FUG 0006 3-91	Ammonia	2.42	2.42	10.60
FUG 0007 32-75	Ammonia	1.73	1.73	7.57
FUG 0008 33-75	Ammonia	1.73	1.73	7.57
FUG 0009 34-75	Ammonia	2.40	2.40	10.60
	Formaldehyde	0.11	0.11	0.46
	Methanol	0.001	0.001	<0.01
FUG 0010 35-75	Ammonia	0.18	0.18	0.80
FUG 0011 52-75	Methanol	3.30	3.30	14.50

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0012 6-67	Ammonia	1.73	1.73	7.57
FUG 0013 9-65	Ammonia	1.73	1.73	7.57
FUG 0014 9-91	Ammonia	0.18	0.18	0.80
FUG 0015 8-65	Ammonia	2.45	2.45	10.73
GRP 0006 14-65	Sulfuric acid	<0.001	<0.001	<0.001
GRP 0007 Cap (14-75/21-75)	Ammonia	160.41		702.6
GRP 0008 Cap (2-72/6-72)	Ammonia	105.70		462.90
RLP 0011 2-91	Ammonia	<0.001	<0.001	0.003
	Nitric acid	0.50	0.50	2.20
RLP 0012 21-75	Ammonia		206.22	
RLP 0013 23-75	Ammonia	0.03	0.13	0.15
	Methanol	3.42	12.79	14.98
RLP 0014 24-75	Ammonia	0.03	0.13	0.15
	Methanol	3.42	12.79	14.98
RLP 0015 3-95	Ammonia	13.96	17.16	61.29
RLP 0017 4-87	Ammonia	0.03	0.12	0.14
	Methanol	3.10	11.61	13.59
RLP 0020 5-65	Ammonia	0.03	0.12	0.14
	Methanol	3.10	11.61	13.59
RLP 0021 57-75	Ammonia	0.09	0.09	0.40
RLP 0022 6-72	Ammonia		135.90	
RLP 0025 7-91	Ammonia	236.00	236.00	14.20
RLP 0026 7-95	Ammonia	0.005	0.005	0.02
SCN 0005 ALT395	Ammonia	1013.80	1017.01	12.00
UNF 0001 CFInd	2,2,4-Trimethylpentane			0.01
	Ammonia			3850.70
	Benzene			0.009
	Chlorine			1.20
	Ethyl benzene			0.001
	Formaldehyde			1.185
	Methanol			114.07
	Nitric acid			2.64
	Polynuclear Aromatic Hydrocarbons			<0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 CFInd	Sulfuric acid			<0.001
	Toluene			0.01
	Xylene (mixed isomers)			0.004
	n-Hexane			0.013

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

Emission Rates Notes:

EQT 0010	Ammonia	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	Ammonia	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	Ammonia	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0010	Methanol	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	Methanol	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0010	Methanol	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0011	Ammonia	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	Ammonia	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	Ammonia	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0011	Methanol	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	Methanol	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0011	Methanol	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0058	Ammonia	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	Ammonia	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	Methanol	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	Methanol	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0058	Methanol	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0060	Ammonia	Avg lb/hr	Includes emission rates during Ships, Barges and Railroad Car Loading	Which Months: All Year
EQT 0060	Ammonia	Max lb/hr	Includes emission rates during Ships, Barges and Railroad Car Loading	Which Months: All Year
EQT 0083	Ammonia	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	Ammonia	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	Ammonia	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0083	Methanol	Avg lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	Methanol	Max lb/hr	For all alternate operating scenarios	Which Months: All Year
EQT 0083	Methanol	Tons/Year	For all alternate operating scenarios	Which Months: All Year
EQT 0090	Ammonia	Avg lb/hr	Includes emission rates during Ships, Barges and Railroad Car Loading	Which Months: All Year
EQT 0090	Ammonia	Max lb/hr	Includes emission rates during Ships, Barges and Railroad Car Loading	Which Months: All Year
GRP 0007	Ammonia	Avg lb/hr	(State Only Administrative Emission Cap)	Which Months: All Year
GRP 0007	Ammonia	Tons/Year	(State Only Administrative Emission Cap)	Which Months: All Year
GRP 0008	Ammonia	Avg lb/hr	(State Only Administrative Emission Cap)	Which Months: All Year
GRP 0008	Ammonia	Tons/Year	(State Only Administrative Emission Cap)	Which Months: All Year
SCN 0005	Ammonia	Avg lb/hr	during shutdowns of the Urea Plant No. 4	Which Months: All Year
SCN 0005	Ammonia	Max lb/hr	during shutdowns of the Urea Plant No. 4	Which Months: All Year
SCN 0005	Ammonia	Tons/Year	during shutdowns of the Urea Plant No. 4. The pound per hour (lb/hr) emission rate for Ammonia exceeds the average lb/hr rate. Because the vent is permitted for continuous operation, the average normal lb/hr rate was subtracted from the lb/hr rate during shutdowns, to calculate this total emission increase in tons per year for 24 hours	Which Months: All Year

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA I, 2, 3, 4

Group Members: EQT 0010 EQT 0011 EQT 0015 EQT 0023 EQT 0031 EQT 0034 EQT 0036 EQT 0039 EQT 0043 EQT 0050 EQT 0053 EQT 0056 EQT 0058 EQT 0059 EQT 0060 EQT 0065 EQT 0066 EQT 0069 EQT 0071 EQT 0072 EQT 0075
EQT 0079 EQT 0081 EQT 0082 EQT 0083 EQT 0088 EQT 0093 EQT 0098 EQT 0114 FUG 0005 FUG 0007 FUG 0008 FUG 0011 FUG 0012 FUG 0013 FUG 0015
RLP 0008 RLP 0009 RLP 0010 RLP 0013 RLP 0014 RLP 0016 RLP 0017 RLP 0018 RLP 0019 RLP 0020 RLP 0023 RLP 0024 SCN 0001 SCN 0002 SCN 0003 SCN 0004

EQT 0010 1-65 - No. 1 Ammonia Plant Reformer

1 [LAC 33.III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33.III.2201.E.1.c.i or the method in LAC

33.III.2201.E.1.c.ii

Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.

Which Months: May-Sep Statistical Basis: None specified

Diluent - either Oxygen or Carbon dioxide monitored by the regulation's specified method(s) continuously. Monitor oxygen or carbon dioxide with a diluent monitor.

Which Months: May-Sep Statistical Basis: None specified

Nitrogen oxides monitored by continuous emission monitor (CEM) continuously

Which Months: May-Sep Statistical Basis: None specified

Monitor carbon monoxide with a CO monitor.

Carbon monoxide monitored by the regulation's specified method(s) continuously.

Which Months: May-Sep Statistical Basis: None specified

Submit test results: Due within 60 days after completing the emission testing required in LAC 33.III.2201.I.1.

Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33.III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33.III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.

Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33.III.2201.D or E. Include the information specified in LAC 33.III.2201.I.2.a through I.2.d.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33.III.2201.I.3 and I.4 as applicable.

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBTu, gr/dscf, lbs SO₂ / ton 100% H₂SO₄, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H₂SO₄ was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1, 2, 3, 4

EQT 0010 1-65 - No. 1 Ammonia Plant Reformer

- 13 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within 180 days after achieving normal production rate or end of the shutdown period of the Energy Retrofit project, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. The test can be performed on either the No. 1 or the No. 2 Ammonia Reformer. Test methods and procedures shall be in accordance with New Source Performance Standards, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 14 [LAC 33:III.507.H.1.a] Submit notification: Due at least 30 days prior to any LDDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
- 15 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed on Ammonia Reformer No. 1 or 2. The test should be performed on whichever unit was not tested previously. (Alternate which Reformer gets tested.) The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of permitted maximum capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack tests methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 16 [LAC 33:III.509.R.6.c] Monitor the emissions of PM10 as a result of the Energy Retrofit Project, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 10 years following resumption of regular operations after the change. Emission results from the required Ammonia Reformer stack testing shall be used in any calculation of annual emissions.
- 17 [LAC 33:III.509] BACT for Carbon Monoxide is determined to be optimum combustion control and the use of clean burning fuels to minimize carbon monoxide emissions that occur as a result of incomplete combustion. BACT for CO is the use of natural gas, (which is the primary chemical used in an ammonia reformer to create ammonia) to limit CO emissions.

EQT 0011 1-67 - No. 2 Ammonia Plant Reformer

- 18 [LAC 33:III.2201.E.1.c] Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c or the method in LAC 33:III.2201.E.1.c.ii.
- 19 [LAC 33:III.2201.H.2.b.] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
- 20' [LAC 33:III.2201.H.2.b.iii] Which Months: May-Sep Statistical Basis: None specified
Diluent - either Oxygen or Carbon dioxide monitored by the regulation's specified method(s) continuously. Monitor oxygen or carbon dioxide with a diluent monitor.
- 21 [LAC 33:III.2201.H.2.b.iv] Which Months: May-Sep Statistical Basis: None specified
Nitrogen oxides monitored by continuous emission monitor (CEM) continuously.
- 22 [LAC 33:III.2201.H.2.b.iv] Which Months: May-Sep Statistical Basis: None specified
Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor.
- Which Months: May-Sep Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1,2,3,4

EQT 0011 1-67 - No. 2 Ammonia Plant Reformer

- 23 [LAC 33:III.2201.1.1] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.1.1.
- 24 [LAC 33:III.2201.1.1] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- 25 [LAC 33:III.2201.1.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.1.2.a through 1.2.d.
- 26 [LAC 33:III.2201.1] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.1.3 and 1.4 as applicable.
- 27 [LAC 33:III.509] BACT for Carbon Monoxide is determined to be optimum combustion control and the use of clean burning fuels to minimize carbon monoxide emissions that occur as a result of incomplete combustion. BACT for CO is the use of natural gas, (which is the primary chemical used in an ammonia reformer to create ammonia) to limit CO emissions.

EQT 0031 15-65 - Complex 1 Ammonia Flare

- 28 [LAC 33:III.1105] Opacity < 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
 Which Months: All Year Statistical Basis: None specified
- 29 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 30 [LAC 33:III.1107] Submit report: Due in writing to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized. Presence of a flame recordkeeping by electronic or hard copy daily.
- 31 [LAC 33:III.501.C.6] Flare gas: Heat content monitored by technically sound method once initially, to insure the heat content is above 300 BTU/scf (State Only).
 Which Months: All Year Statistical Basis: None specified
- 32 [LAC 33:III.501.C.6] Flare gas: Heat content recordkeeping by electronic or hard copy once initially (State Only).
- 33 [LAC 33:III.501.C.6] Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
- 34 [LAC 33:III.501.C.6] Presence of a flame monitored by visual inspection/determination daily to ensure pilot is lit.
 Which Months: All Year Statistical Basis: None specified
- 35 [LAC 33:III.501.C.6]

EQT 0036 17-65 - No. 1 Ammonia Cooling Tower (CT-2201U)

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1,2,3,4

EQT 0036 17-65 - No. 1 Ammonia Cooling Tower (CT-2201U)

36 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0050 22-75 - Complex II Ammonia Flare

37 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.

Which Months: All Year Statistical Basis: None specified
Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
Presence of a flame monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified

Flare gas: Heat content monitored by technically sound method once initially, to insure the heat content is above 300 BTU/scf (State Only).

Which Months: All Year Statistical Basis: None specified

Flare gas: Heat content recordkeeping by electronic or hard copy once initially (State Only).

Presence of a flame recordkeeping by electronic or hard copy daily.

Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

EQT 0052 26-75 - Complex II Gasoline Storage Tank

44 [LAC 33:III.2103.A] Equip with a submerged fill pipe.

45 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a.e.

46 [LAC 33:III.2131.F] Equipment/operational data recordkeeping by electronic or hard copy continuously. Records shall include date of delivery of each shipment of gasoline. Also keep records of total rolling gasoline throughput to prove exemption with LAC 33:III.2131.D.3. Maintain records for at least two years.

EQT 0055 3-65 - No. 1 Ammonia Plant Start-up Heater

47 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1,2,3,4

EQT 0055 3-65 - No. 1 Ammonia Plant Start-up Heater

48 [LAC 33.III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

EQT 0056 3-67 - No. 2 Ammonia Plant Start-up Heater

49 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

50 [LAC 33.III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

EQR 0058 3-75 - No. 3 Ammonia Plant Reformer

51 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

52 [LAC 33.III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33.III.2201.E.1.c.i or the method in LAC 33.III.2201.E.1.c.ii

53 [LAC 33.III.2201.E.1.c] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
Which Months: May-Sep Statistical Basis: None specified
Diluent - either Oxygen or Carbon dioxide monitored by the regulation's specified method(s) continuously. Monitor oxygen or carbon dioxide with a diluent monitor.
Which Months: May-Sep Statistical Basis: None specified

54 [LAC 33.III.2201.H.2.b.ii] Nitrogen oxides monitored by continuous emission monitor (CEM) continuously.
Which Months: May-Sep Statistical Basis: None specified
Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor.
Which Months: May-Sep Statistical Basis: None specified

55 [LAC 33.III.2201.H.2.b.iii] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33.III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33.III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
Submit test results: Due within 60 days after completing the emission testing required in LAC 33.III.2201.I.1.

56 [LAC 33.III.2201.H.2.b.iii]

57 [LAC 33.III.2201.H.2.b.iv]

58 [LAC 33.III.2201.I.1]

59 [LAC 33.III.2201.I.1]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1, 2, 3, 4

EQT 0058 3-75 - No. 3 Ammonia Plant Reformer

- 60 [LAC 33:III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 61 [LAC 33:III.2201.J] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- 62 [LAC 33:III.501.C.6] Average hourly emission rate of Nitrogen oxides recordkeeping by electronic or hard copy quarterly from the permanently installed NO_x analyzer. Keep records of the nitrogen oxide emission rate obtained each quarter, as well as the average nitrogen oxide emission rate for the last four quarters. Make records available for inspection by DEQ personnel.
- 63 [LAC 33:III.501.C.6] Minimum ratio of purge gas and water mass flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of the total ratio of water to purge gas flowrates for the last twelve months. Record the time that the Low Pressure Purge Gas Recovery Unit (LPPGRU) is not operating due to maintenance. Make records available for inspection by DEQ personnel.
- 64 [LAC 33:III.501.C.6] Water flowrate in the LPPGRU absorbers during operation shall be a flow rate $\geq 2.2 \text{ lb/lb}$ of purge gas treated. Maintain and operate the Low Pressure Purge Gas Recovery Unit (LPPGRU) on the low pressure purge streams used as fuel in the No. 3 Ammonia Plant Reformer. This condition is intended to show compliance with a permanent NO_x reduction associated with an offset operation and is therefore federally enforceable. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the minimum water/purge gas ratio was not achieved as specified in this specific condition for any four hour monitoring period.
- 65 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Approved basis Submit report: Due annually, by the 31st of March. Report the quarterly nitrogen oxide emission rate, and the estimated annual emissions of NO_x from the reformer, for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- 66 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified Submit report: Due annually, by the 31st of March. Report the total hours that the minimum water/purge gas ratio was not achieved, the total maintenance downtime, and the total estimated ammonia recovered, for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- 67 [LAC 33:III.501.C.6] Purge gas and water mass flow rate monitored by technically sound method once every four hours during operation of the LPPGRU absorbers. Monitor the time that the Low Pressure Purge Gas Recovery Unit (LPPGRU) is not operating.
- 68 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Hourly average Average hourly emission rate of Nitrogen oxides monitored by continuous emission monitor (CEM) quarterly. Record the daily production rate and hours of operation to show steady state operation between sampling periods.
- 69 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: Hourly average Conduct a performance/emissions test: Due within 180 days after achieving normal production rate or end of the shutdown period of the Energy Retrofit project, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. The test can be performed on either the No. 3 or the No. 4 Ammonia Reformer. Test methods and procedures shall be in accordance with New Source Performance Standards, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1,2,3,4

EQT 0058 3-75 - No. 3 Ammonia Plant Reformer

- 70 [LAC 33:III.507.H.1.a] Submit notification: Due at least 30 days prior to any LDQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing. Conduct a performance/emissions test. Due within five years, plus or minus 6 months, of when the previous performance test was performed on Ammonia Reformer No. 3 or 4. The test should be performed on whichever unit was not tested previously. (Alternate which Reformer gets tested.) The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of permitted maximum capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack tests methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 71 [LAC 33:III.507.H.1.a] Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO₂ / ton H₂SO₄, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H₂SO₄ was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
- 72 [LAC 33:III.507.H.1.a] Monitor the emissions of PM10 as a result of the Energy Retrofit Project, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 10 years following resumption of regular operations after the change. Emission results from the required Ammonia Reformer stack testing shall be used in any calculation of annual emissions.
- 73 [LAC 33:III.509.R.6.c] BACT for Carbon Monoxide is determined to be optimum combustion control and the use of clean burning fuels to minimize carbon monoxide emissions that occur as a result of incomplete combustion. BACT for CO is the use of natural gas, (which is the primary chemical used in an ammonia reformer to create ammonia) to limit CO emissions.
- 74 [LAC 33:III.509]
- 75 [LAC 33:III.1105] Opacity < 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
- 76 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:III.3923. Notification is required only if the upset cannot be controlled in six hours.
- 77 [LAC 33:III.501.C.6] Flare gas: Heat content monitored by technically sound method once initially, to insure the heat content is above 300 BTU/scf (State Only).
Which Months: All Year Statistical Basis: None specified
- 78 [LAC 33:III.501.C.6] Presence of a flame monitored by visual inspection/determination daily to ensure pilot is lit.
Which Months: All Year Statistical Basis: None specified
- 79 [LAC 33:III.501.C.6] Flare gas: Heat content recordkeeping by electronic or hard copy once initially (State Only).
- 80 [LAC 33:III.501.C.6] Presence of a flame recordkeeping by electronic or hard copy daily.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA I, 2, 3, 4

EQT 0059 3-92 - Complex II Pipeline Flare

81 [LAC 33:III.501.C.6] Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

EQT 0065 4-65 - Complex I Ammonia Flare

82 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours. Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
Presence of a flame recordkeeping by electronic or hard copy daily.
Flare gas: Heat content recordkeeping by electronic or hard copy once initially (State Only).
Presence of a flame monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified
Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
Flare gas: Heat content monitored by technically sound method once initially, to insure the heat content is above 300 BTU/scf (State Only).
Which Months: All Year Statistical Basis: None specified

EQT 0075 5-75 - No. 3 Ammonia Plant Start-up Heater

88 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute Period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

EQT 0081 58-75 - No. 3 Ammonia Cooling Tower (CT-2201UA)

91 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

EQT 0082 59-75 - No. 4 Ammonia Cooling Tower (CT-2201UB)

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1,2,3,4

EQT 0082 59-75 - No. 4 Ammonia Cooling Tower (CT-2201UB)

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0083 6-75 - No. 4 Ammonia Plant Reformer

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii.

Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.

Which Months: May-Sep Statistical Basis: None specified

Diluent - either Oxygen or Carbon dioxide monitored by the regulation's specified method(s) continuously. Monitor oxygen or carbon dioxide with a diluent monitor.

Which Months: May-Sep Statistical Basis: None specified

Nitrogen oxides monitored by continuous emission monitor (CEM) continuously.

Which Months: May-Sep Statistical Basis: None specified

Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor.

Which Months: May-Sep Statistical Basis: None specified

Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

Purge gas and water mass flow rate monitored by technically sound method once every four hours during operation of the LPPGRU absorbers.

Monitor the time that the Low Pressure Purge Gas Recovery Unit (LPPGRU) is not operating.

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-000004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1, 2, 3, 4

EQT 0083 6-75 - No. 4 Ammonia Plant Reformer

105 [LAC 33:III.501.C.6] Minimum ratio of purge gas and water mass Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of the total ratio of water to purge gas flowrates for the last twelve months. Record the time that the Low Pressure Purge Gas Recovery Unit (LPPGRU) is not operating due to maintenance. Make records available for inspection by DEQ personnel.

106 [LAC 33:III.501.C.6] Water flowrate in the LPPGRU absorbers during operation shall be a Flow rate $\geq 2.2 \text{ lb/lb}$ of purge gas treated. Maintain and operate the Low Pressure Purge Gas Recovery Unit (LPPGRU) on the low pressure purge streams used as fuel in the No. 4 Ammonia Plant Reformer. This conditions is intended to show compliance with a permanent NO_x reduction associated with an offset operation and is therefore federally enforceable. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the minimum water/purge gas ratio was not achieved as specified in this specific condition for any four hour monitoring period.

Which Months: All Year Statistical Basis: Approved basis
Submit report: Due annually, by the 31st of March. Report the total hours that the minimum water/purge gas ratio was not achieved, the total maintenance downtime, and the total estimated ammonia recovered, for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

Average hourly emission rate of Nitrogen oxides recordkeeping by electronic or hard copy quarterly from the permanently installed NO_x analyzer. Keep records of the nitrogen oxide emission rate obtained each quarter, as well as the nitrogen oxide emission rate for the last four quarters. Make records available for inspection by DEQ personnel.

108 [LAC 33:III.501.C.6] Submit report: Due annually, by the 31st of March. Report the quarterly nitrogen oxide emission rate, and the estimated annual emissions of NO_x from the reformer, for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

109 [LAC 33:III.501.C.6] BACT for Carbon Monoxide is determined to be optimum combustion control and the use of clean burning fuels to minimize carbon monoxide emissions that occur as a result of incomplete combustion. BACT for CO is the use of natural gas, (which is the primary chemical used in an ammonia reformer to create ammonia) to limit CO emissions.

EQT 0095 8-75 - No. 4 Ammonia Plant Start-up Heater

111 [LAC 33:III.1101.B] Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
Total suspended particulate $\leq 0.6 \text{ lb/MMB TU}$ of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

EQT 0097 9-67 - No. 2 Ammonia Cooling Tower (CT-2201U)

113 [LAC 33:III.1311.C] Opacity ≤ 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1, 2, 3, 4

EQT 0112 1-06 - NH3 Complex 2 Emergency Generator

- 114 [40 CFR 60.4205.a] Nitrogen oxides <= 6.9 g/BHP-hr (9.2 g/KW-hr). Subpart III. [40 CFR 60.4205(a)]
Which Months: All Year Statistical Basis: None specified
Total hydrocarbon <= 1.0 g/BHP-hr (1.3 g/KW-hr). Subpart III. [40 CFR 60.4205(a)]
Which Months: All Year Statistical Basis: None specified
Particulate matter (10 microns or less) <= 0.40 g/BHP-hr (0.54 g/KW-hr). Subpart III. [40 CFR 60.4205(a)]
Which Months: All Year Statistical Basis: None specified
Carbon monoxide <= 8.5 g/BHP-hr (11.4 g/KW-hr). Subpart III. [40 CFR 60.4205(a)]
Which Months: All Year Statistical Basis: None specified
Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]
Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
Which Months: All Year Statistical Basis: None specified
Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]
Demonstrate compliance according to one of the methods specified in 40 CFR 60.4211(b)(1) through (b)(5). Subpart III. [40 CFR 60.4211(b)]
Submit petition to DEQ for approval of operating parameters to be monitored continuously. Include the information described in 40 CFR 60.4211(d)(2)(i) through (d)(2)(v). Subpart III. [40 CFR 60.4211(d)(2)]
Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart III.
Determine compliance with the NOx mass per unit output emission limitation by converting the concentration of NOx in engine exhaust using 40 CFR 60.4213(e), Equation 7. Subpart III. [40 CFR 60.4213(e)]
Determine compliance with the PM mass per unit output emission limitation by converting the concentration of PM in the engine exhaust using 40 CFR 60.4213(f), Equation 8. Subpart III. [40 CFR 60.4213(f)]
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

EQT 0113 1-07 - Air Compressor, Ammonia 1 and 2

- 129 [40 CFR 60.4205.b] Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1, 2, 3, 4

EQT 0113 1-07 - Air Compressor, Ammonia 1 and 2

- Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
- Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
- Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]
- Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
- Which Months: All Year Statistical Basis: None specified
- Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]
- Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart III.
- Compliance with NESHAP Subpart ZZZZ is by complying with the requirements of 40 CFR part 60 subpart III. [40 CFR 63.6590(c)]
- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: Six-minute average

EQT 0114 2-07 - Air Compressor, Ammonia 3 and 4

- Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)]
- Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
- Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
- Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]
- Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
- Which Months: All Year Statistical Basis: None specified
- Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also, meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]
- Demonstrate compliance according to one of the methods specified in 40 CFR 60.4211(b)(1) through (b)(5). Subpart III. [40 CFR 60.4211(b)]
- Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart III.
- Compliance with NESHAP Subpart ZZZZ is by complying with the requirements of 40 CFR part 60 subpart III. [40 CFR 63.6590(c)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1,2,3,4

EQT 0114 2-07 - Air Compressor, Ammonia 3 and 4

147 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

RLP 0008 10-65 - No. 1 Ammonia Plant Process Gas Vent

148 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
Operate at all times when emissions may be vented to the flare.

149 [LAC 33:III.1105] Presence of a flame monitored by technically sound method daily.
Which Months: All Year Statistical Basis: None specified
Presence of a flame recordkeeping by electronic or hard copy daily.

150 [LAC 33:III.501.C.6] Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
151 [LAC 33:III.501.C.6]
152 [LAC 33:III.501.C.6]
153 [LAC 33:III.501.C.6]

RLP 0009 2-65 - No. 1 Ammonia Plant Hot Vent

Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation in accordance with manufacturer's specifications. [40 CFR 64.3(b)(3)]
154 [40 CFR 64.6.c.4] Presence of a flame monitored by heat sensing device upon occurrence of event. Facility is allowed to use either the thermocouple or infrared sensor or by visible observation to monitor the presence of the flame every fifteen minutes while the process gas is routed for combustion during Startup conditions. [40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified
Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Record a summary of the presence of flame monitoring data collected while the process gas is routed for combustion during Startup conditions, indicating which device was used, any missed data during the event, start and end times of the event, and other essential or relevant data. [40 CFR 64.6(c)(4)]
155 [40 CFR 64.6.c.1] Conduct the monitoring required under 40 CFR 64.6 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
156 [40 CFR 64.6.c.4] Maintain the monitoring required under 40 CFR 64.6 at all required times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1, 2, 3, 4

RLP 0009 2-65 - No. 1 Ammonia Plant Hot Vent

- 159 [40 CFR 64.9.a] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 160 [40 CFR 64.9.b.1] Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 161 [40 CFR 64.9.b.1] Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 162 [40 CFR 64.9.b.1] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 163 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 164 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- Which Months: All Year Statistical Basis: None specified
- 165 [LAC 33:III.501.C.6] Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

RLP 0010 2-67 - No. 2 Ammonia Plant Hot Vent

- 166 [40 CFR 64.3.b.3] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation in accordance with manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 167 [40 CFR 64.6.c.1] Presence of a flame monitored by heat sensing device upon occurrence of event. Facility is allowed to use either the thermocouple or infrared sensor or by visible observation to monitor the presence of the flame every fifteen minutes while the process gas is routed for combustion during Startup conditions. [40 CFR 64.6(c)(1)]
- 168 [40 CFR 64.6.c.4] Which Months: All Year Statistical Basis: None specified
- 169 [40 CFR 64.7.a] Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Record a summary of the presence of flame monitoring data collected while the process gas is routed for combustion during Startup conditions, indicating which device was used, any missed data during the event, start and end times of the event, and other essential or relevant data. [40 CFR 64.6(c)(4)]
- 170 [40 CFR 64.7.b] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- Maintain the monitoring required under 40 CFR 64 at all required times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1,2,3,4

RLP 0010 2-67 - No. 2 Ammonia Plant Hot Vent

- 171 [40 CFR 64.9.a] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)] Comply with the recordkeeping requirements specified in 40 CFR 64.9(b)(1)]
- 172 [40 CFR 64.9.b.] Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 173 [40 CFR 64.9.b.] Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 174 [40 CFR 64.9.b.] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 175 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- 176 [LAC 33:III.1105] Which Months: All Year Statistical Basis: None specified Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

RLP 0013 23-75 - No. 3 Ammonia Plant Carbon Dioxide Vent

- 177 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 178 [LAC 33:III.2115.K] BACT for Carbon Monoxide is determined to be optimum catalytic conversion of CO to CO₂ in the high and low shift converters to minimize carbon monoxide emissions that occur as a result of incomplete conversion.

RLP 0014 24-75 - No. 4 Ammonia Plant Carbon Dioxide Vent

- 179 [LAC 33:III.509] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 180 [LAC 33:III.2115.K] BACT for Carbon Monoxide is determined to be optimum catalytic conversion of CO to CO₂ in the high and low shift converters to minimize carbon monoxide emissions that occur as a result of incomplete conversion.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER2008003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1, 2, 3, 4

RLP 0016 39-75 - No. 3 Ammonia Plant Process Gas Vent

- 182 [LAC 33.III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33.I.3923. Notification is required only if the upset cannot be controlled in six hours.
Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- Which Months: All Year Statistical Basis: None specified
Operate at all times when emissions may be vented to the flare.
Presence of a flame recordkeeping by electronic or hard copy daily.
Presence of a flame monitored by technically sound method daily.
Which Months: All Year Statistical Basis: None specified
Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

RLP 0017 4-67 - No. 2 Ammonia Plant Carbon Dioxide Vent

- 188 [LAC 33.III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
BACT for Carbon Monoxide is determined to be optimum catalytic conversion of CO to CO₂ in the high and low shift converters to minimize carbon monoxide emissions that occur as a result of incomplete combustion.

RLP 0018 4-75 - No. 3 Ammonia Plant Hot Vent

- 190 [40 CFR 64.3.b.3] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation in accordance with manufacturer's specifications. [40 CFR 64.3(b)(3)]
191 [40 CFR 64.6.c.1] Presence of a flame monitored by heat sensing device upon occurrence of event. Facility is allowed to use either the thermocouple or infrared sensor or by visible observation to monitor the presence of the flame every fifteen minutes while the process gas is routed for combustion during Startup conditions. [40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified
Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Record a summary of the presence of flame monitoring data collected while the process gas is routed for combustion during Startup conditions, indicating which device was used, any missed data during the event, start and end times of the event, and other essential or relevant data. [40 CFR 64.6(c)(4)]
192 [40 CFR 64.6.c.4] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
193 [40 CFR 64.7.a] Maintain the monitoring required under 40 CFR 64 at all required times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1,2,3,4

RLP 0018 4-75 - No. 3 Ammonia Plant Hot Vent

195 [40 CFR 64.9.a]

Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

196 [40 CFR 64.9.b.1]
197 [40 CFR 64.9.b.1]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

198 [40 CFR 64.9.b.1]

Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.

Which Months: All Year Statistical Basis: None specified

Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:f.3923. Notification is required only if the upset cannot be controlled in six hours.
Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

RLP 0019 40-75 - No. 4 Ammonia Plant Process Gas Vent

202 [LAC 33:III.1105]

Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.
Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.

203 [LAC 33:III.1105]

Which Months: All Year Statistical Basis: None specified
Operate at all times when emissions may be vented to the flare.

204 [LAC 33:III.501.C.6]

Presence of a flame monitored by technically sound method daily.
Which Months: All Year Statistical Basis: None specified

205 [LAC 33:III.501.C.6]

Presence of a flame recordkeeping by electronic or hard copy daily.
Which Months: All Year Statistical Basis: None specified

206 [LAC 33:III.501.C.6]

Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 001 AMMONIA 1,2,3,4

RLP 0020 5-65 - No. 1 Ammonia Plant Carbon Dioxide Vent

Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

BACT for Carbon Monoxide is determined to be optimum catalytic conversion of CO to CO₂ in the high and low shift converters to minimize carbon monoxide emissions that occur as a result of incomplete conversion.

RLP 0023 7-67 - No. 2 Ammonia Plant Process Gas Vent

- Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- Which Months: All Year Statistical Basis: None specified
- Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- Presence of a flame monitored by technically sound method daily.
- Which Months: All Year Statistical Basis: None specified
- Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
- Operate at all times when emissions may be vented to the flare.
- Presence of a flame recordkeeping by electronic or hard copy daily.

RLP 0024 7-75 - No. 4 Ammonia Plant Hot Vent

- Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation in accordance with manufacturer's specifications. [40 CFR 64.3(b)(3)]
- Presence of a flame monitored by heat sensing device upon occurrence of event. Facility is allowed to use either the thermocouple or infrared sensor or by visible observation to monitor the presence of the flame every fifteen minutes while the process gas is routed for combustion during Startup conditions. [40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Record a summary of the presence of flame monitoring data collected while the process gas is routed for combustion during Startup conditions, indicating which device was used, any missed data during the event, start and end times of the event, and other essential or relevant data. [40 CFR 64.6(c)(4)]
- Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- Maintain the monitoring required under 40 CFR 64 at all required times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Group: PCS 0001 AMMONIA 1,2,3,4

RLP 0024 7-75 - No. 4 Ammonia Plant Hot Vent

- 221 [40 CFR 64.9.a] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)] Monitoring data recordkeeping by electronic or hard copy upon occurrence of event. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)] Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 224 [40 CFR 64.9.b.1] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- 225 [LAC 33:III.1.105] Which Months: All Year Statistical Basis: None specified Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
- 226 [LAC 33:III.1.105]
- 227 [LAC 33:III.501.C.6]

Group: PCS 002 AMMONIUM NITRATE I, 2

Group Members: EQT 0013EQT 0033EQT 0044EQT 0053EQT 0064EQT 0084EQT 0105EQT 0107EQT 0110RLLP 0011 RLP 0026

RLP 0011 2-91 - No. 1 UAN Neutralizer Vent

- 228 [LAC 33:III.1.1311.B] Total suspended particulate <= 47.90 lb/hr. The rate of emission shall be the total of all emission points from the source. Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 229 [LAC 33:III.1.1311.C] Which Months: All Year Statistical Basis: Six-minute average Submit report: Due annually, by the 31st of March for the preceding calendar year. List the days that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
- 230 [LAC 33:III.501.C.6] Scrubber Flow rate monitored by flow rate monitoring device once every four hours. Monitor the recirculation flowrate and the process condensate flowrate separately. Monitor the total days that each of the minimum scrubber liquid flowrates was not achieved.
- 231 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Group: PCS 002 AMMONIUM NITRATE 1, 2

RLP 0011 2-91 - No. 1 UAN Neutralizer Vent

- 232 [LAC 33:III.501.C.6] Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. Record the recirculation flowrate and the process condensate flowrate separately. Record the total days that each of the minimum scrubber liquid flowrates was not achieved. Make daily records of scrubber liquid flowrates available for inspection by DEQ personnel.
- Recirculation Flow rate >= 450000.00 lb/hr and a minimum of 5,500 lb/hr of process condensate through the scrubber.
- Which Months: All Year Statistical Basis: Daily average
- Total suspended particulate >= 90.0 % removal efficiency.
- Which Months: All Year Statistical Basis: None specified

Group: PCS 003 NITRIC ACID 1, 2, 3

Group Members: EQT 0047 EQT 0048 EQT 0051 EQT 0067 EQT 0068 EQT 0069 EQT 0070 EQT 0076 EQT 0077 EQT 0078 EQT 0086 EQT 0096 EQT 0098 FUG 0003 FUG 0010 FUG 0014

EQT 0020 10-91 - No. 2 Nitric Acid Cooling Tower (CT-401)

- 235 [LAC 33:III.131.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: Six-minute average

EQT 0047 20-75 - No. 1 Nitric Acid Plant Absorber Stack

- 236 [40 CFR 60.72.a.1] Nitrogen oxides <= 3.0 lb/ton (1.5 kb/metric ton) of acid produced, the production being expressed as 100% nitric acid. Subpart G. [40 CFR 60.72(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- Opacity < 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
- 237 [40 CFR 60.72.a.2] Which Months: All Year Statistical Basis: None Specified
- Nitrogen oxides recordkeeping by electronic or hard copy continuously. Subpart G. [40 CFR 60.73(a)]
- 238 [40 CFR 60.73.a] Nitrogen oxides monitored by CMS continuously. Subpart G. [40 CFR 60.73(a)]
- 239 [40 CFR 60.73.a] Which Months: All Year Statistical Basis: None specified
- Establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton). Subpart G. [40 CFR 60.73(b)]
- 240 [40 CFR 60.73.b] Production rate recordkeeping by electronic or hard copy daily. Record the daily production rate and hours of operation. Subpart G. [40 CFR 60.73(c)]
- 241 [40 CFR 60.73.c] Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.74, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart G. [40 CFR 60.74(a)]
- 242 [40 CFR 60.74.a] Determine compliance with the NO_x standards in 40 CFR 60.72 using the test methods and procedures specified in 40 CFR 60.74(b)(1) through (b)(4) or (c)(1), as applicable. Subpart G. [40 CFR 60.74(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0003 NITRIC ACID 1,2,3

EQT 0047 20-75 - No. 1 Nitric Acid Plant Absorber Stack

- 244 [40 CFR 60.74.d] Use the procedure in 40 CFR 60.73(b) to determine the conversion factor for converting the monitoring data to the units of the standard. Subpart G. [40 CFR 60.74(d)]

EQT 0048 20-95 - No. 3 Nitric Acid Cooling Tower (CT-301)

- 245 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average
Drift Eliminators shall be operated in accordance with the manufacturer instructions to control particulate emissions as established as BACT per PSD permit PSD-LA-594.

EQT 0051 25-75 - No. 1 Nitric Acid Plant Tank

- 247 [LAC 33:III.501.C.6] Scrubber Flow rate monitored by flow rate monitoring device once every four hours.
Which Months: All Year Statistical Basis: None specified
Nitric acid >= 80 % removal efficiency.
Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
Scrubber Flow rate >= 10.00 gallons/min
Which Months: All Year Statistical Basis: None specified
Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.

EQT 0067 4-91 - No. 2 Nitric Acid Plant Absorber Stack

- 252 [40 CFR 60.72.a.1] Nitrogen oxides <= 3.0 lb/ton (1.5 kb/metric ton) of acid produced, the production being expressed as 100% nitric acid. Subpart G. [40 CFR 60.72(a)(1)]
Which Months: All Year Statistical Basis: None specified
Opacity < 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
Which Months: All Year Statistical Basis: None specified
Nitrogen oxides recordkeeping by electronic or hard copy continuously. Subpart G. [40 CFR 60.73(a)]
Nitrogen oxides monitored by CMS continuously. Subpart G. [40 CFR 60.73(a)]
Which Months: All Year Statistical Basis: None specified
Establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton). Subpart G. [40 CFR 60.73(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0003 NITRIC ACID 1,2,3**EQT 0067 4-91 - No. 2 Nitric Acid Plant Absorber Stack**

- Production rate recordkeeping by electronic or hard copy daily. Record the daily production rate and hours of operation. Subpart G. [40 CFR 60.73(c)]
- [40 CFR 60.74.a] Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.74, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart G. [40 CFR 60.74(a)]
- [40 CFR 60.74.b] Determine compliance with the NO_x standards in 40 CFR 60.72 using the test methods and procedures specified in 40 CFR 60.74(b)(1) through (b)(4) or (c)(1), as applicable. Subpart G. [40 CFR 60.74(b)]
- [40 CFR 60.74.d] Use the procedure in 40 CFR 60.73(b) to determine the conversion factor for converting the monitoring data to the units of the standard. Subpart G. [40 CFR 60.74(d)]
- Nitric Acid Throughput monitored by technically sound method at the regulation's specified frequency.
- Which Months: All Year Statistical Basis: Daily average
- Produce Nitric acid <= 200750 tons/yr (expressed as 100% nitric acid).
- Submit report: Due annually, by the 31st of March. Report the Nitric Acid Plant No. 2 nitric acid annual production rate and the estimated annual NO_x emissions, based on monitoring results, for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- Nitric Acid Throughput recordkeeping by electronic or hard copy daily.

EQT 0068 4-95 - No. 3 Nitric Acid Plant Absorber Stack

- Nitrogen oxides <= 3.0 lb/ton (1.5 kb/metric ton) of acid produced, the production being expressed as 100% nitric acid. Subpart G. [40 CFR 60.72(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- Opacity < 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Nitrogen oxides monitored by CMS continuously. Subpart G. [40 CFR 60.73(a)]
- Which Months: All Year Statistical Basis: None specified
- Nitrogen oxides recordkeeping by electronic or hard copy continuously. Subpart G. [40 CFR 60.73(a)]
- Establish a conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton). Subpart G. [40 CFR 60.73(b)]
- Production rate recordkeeping by electronic or hard copy daily. Record the daily production rate and hours of operation. Subpart G. [40 CFR 60.73(c)]
- Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.74, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart G. [40 CFR 60.74(a)]
- Determine compliance with the NO_x standards in 40 CFR 60.72 using the test methods and procedures specified in 40 CFR 60.74(b)(1) through (b)(4) or (c)(1), as applicable. Subpart G. [40 CFR 60.74(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 003 NITRIC ACID 1,2,3

EQT 0068 4-95 - No. 3 Nitric Acid Plant Absorber Stack

273 [40 CFR 60.74-d]

Use the procedure in 40 CFR 60.73(b) to determine the conversion factor for converting the monitoring data to the units of the standard. Subpart G. [40 CFR 60.74(d)]

EQT 0070 45-75 - No. 1 Nitric Acid Process Water Tank

274 [LAC 33:III.501.C.6]

pH monitored by pH instrument once every four hours.

Which Months: All Year Statistical Basis: None specified

275 [LAC 33:III.501.C.6]

pH < 3.0 s.u.

Which Months: Phases: Statistical Basis: None specified

276 [LAC 33:III.501.C.6]

pH recordkeeping by electronic or hard copy once every four hours.

EQT 0076 5-91 - No. 2 Nitric Acid Plant Tank

277 [LAC 33:III.501.C.6]

Scrubber Flow rate \geq 10.00 gallons/min.

Which Months: All Year Statistical Basis: None specified

278 [LAC 33:III.501.C.6]

Scrubber Flow rate monitored by flow rate monitoring device once every four hours.

Which Months: All Year Statistical Basis: None specified

279 [LAC 33:III.501.C.6]

Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.

Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

280 [LAC 33:III.501.C.6]

Nitric acid \geq 80 % removal efficiency.

Which Months: All Year Statistical Basis: None specified

EQT 0077 5-95 - No. 3 Nitric Acid Plant Tank

282 [LAC 33:III.501.C.6]

Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

283 [LAC 33:III.501.C.6]

Scrubber Flow rate \geq 10.00 gallons/min.

Which Months: All Year Statistical Basis: None specified

284 [LAC 33:III.501.C.6]

Scrubber Flow rate monitored by flow rate monitoring device once every four hours.

Which Months: All Year Statistical Basis: None specified

285 [LAC 33:III.501.C.6]

Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.

286 [LAC 33:III.501.C.6]

Nitric acid \geq 80 % removal efficiency.

Which Months: All Year Statistical Basis: None specified

EQT 0086 60-75 - No. 1 Nitric Acid Cooling Tower (CT-301)

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 003 NITRIC ACID 1,2,3

EQT 0086 60-75 - No. 1 Nitric Acid Cooling Tower (CT-301)

287 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0096 8-91 - No. 2 Nitric Acid Clean Condensate Tank

288 [LAC 33:III.501.C.6]

pH < 3.0 s.u.
Which Months: Phases: Statistical Basis: None specified

289 [LAC 33:III.501.C.6]

pH monitored by pH instrument once every four hours.
Which Months: All Year Statistical Basis: None specified

290 [LAC 33:III.501.C.6]

pH recordkeeping by electronic or hard copy once every four hours.

EQT 0098 9-95 - No. 3 Nitric Acid Clean Condensate Tank

291 [LAC 33:III.501.C.6]

pH < 3.0 s.u.
Which Months: Phases: Statistical Basis: None specified

292 [LAC 33:III.501.C.6]

pH monitored by pH instrument once every four hours.
Which Months: All Year Statistical Basis: None specified

293 [LAC 33:III.501.C.6]

pH recordkeeping by electronic or hard copy once every four hours.

FUG 0014 9-91 - No. 2 Nitric Acid Plant Fugitives

294 [40 CFR 60.72.a.2]

Fugitive leak Opacity < 10 percent. Subpart G. [40 CFR 60.72(a)(2)]
Which Months: All Year Statistical Basis: None specified

Group: PCS 004 UREA I,2,3,4

Group Members: ARE 0002 ARE 0005 EQT 0012 EQT 0014 EQT 0016 EQT 0017 EQT 0019 EQT 0021 EQT 0022 EQT 0024 EQT 0025 EQT 0026 EQT 0028 EQT 0029 EQT 0030 EQT 0032 EQT 0033 EQT 0035 EQT 0036 EQT 0038 EQT 0041 EQT 0042 EQT 0043 EQT 0044 EQT 0045 EQT 0046 EQT 0049 EQT 0057 EQT 0062 EQT 0063 EQT 0064 EQT 0066 EQT 0071 EQT 0074 EQT 0077 EQT 0080 EQT 0083 EQT 0085 EQT 0087 EQT 0091 EQT 0094 EQT 0099

ARE 0002 16-95 - Urea Warehouse Storage/Loading No. 2

295 [LAC 33:III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

ARE 0005 9-72 - No. 1 Urea Warehouse Storage/Loading

296 [LAC 33:III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.I-7.

EQT 0012 1-72 - No. 1 Urea Boiler

297 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii.

Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.

Which Months: May-Sep Statistical Basis: None specified

Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.

Which Months: May-Sep Statistical Basis: None specified

Implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with LAC 33:III.2201.G to continuously demonstrate compliance with the NO_x limits of LAC 33:III.2201.D or E. Make the procedures, steam flow -oxygen operating charts and supporting stack test data available upon request.

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.

Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2 through I.2.d.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT 0017 1-91 - No. 3 Urea Boiler

307 [40 CFR 60.44b]

Nitrogen oxides <= 0.10 lb/MMBTU (43 ng/J) heat input (expressed as NO₂). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.

Which Months: All Year Statistical Basis: Thirty-day rolling average

Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3.i4

EQR 0017 1-91 - No. 3 Urea Boiler

- 309 [40 CFR 60.48b.b.1] Nitrogen oxides recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(b)(1)]
[40 CFR 60.48b.b.1]
310 [40 CFR 60.48b(b.1)] Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)]
- 311 [40 CFR 60.48b.c] Which Months: All Year Statistical Basis: One-hour average
Operate NO_x continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 312 [40 CFR 60.48b.e] Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NO_x continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- 313 [40 CFR 60.48b.f] When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 314 [40 CFR 60.49b.a] Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 315 [40 CFR 60.49b.b] Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 316 [40 CFR 60.49b.d] Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 317 [40 CFR 60.49b.g] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 318 [40 CFR 60.49b.h] Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 319 [40 CFR 60.49b.i] Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 320 [40 CFR 60.49b.q] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(q)]
- 321 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel)).
- 322 [LAC 33.III.1313.C] Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel)).
- 323 [LAC 33.III.1101.B] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

EQT 0017 1-91 - No. 3 Urea Boiler

323 [LAC 33:III:2201.D.1]

Nitrogen oxides <= 0.10 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III:2201.E.1.c.i or the method in LAC

33:III:2201.E.1.c.ii.

324 [LAC 33:III:2201.E.1.c.]

Fuel monitored by totalizer continuously. Monitor gas and/or liquid fuel usage with a totalizing fuel meter. Provide belt scales or an equivalent device for coal-fired boilers.

325 [LAC 33:III:2201.H.1.a.]

Which Months: May-Sep Statistical Basis: None specified

Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.

326 [LAC 33:III:2201.H.1.a.ii]

Which Months: May-Sep Statistical Basis: None specified

Nitrogen oxides monitored by continuous emission monitor (CEM) continuously to demonstrate continuous compliance with the NO_x emission factors of LAC 33:III:2201.D or E. Ensure that the CEM meets all of the requirements of 40 CFR Part 60.13 and performance specification 2 of 40 CFR 60, Appendix B, or the requirements of 40 CFR Part 75 for units regulated under the Acid Rain Program.

327 [LAC 33:III:2201.H.1.b.iii]

Which Months: May-Sep Statistical Basis: None specified

Implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with LAC 33:III:2201.G to continuously demonstrate compliance with the NO_x limits of LAC 33:III:2201.D or E.

328 [LAC 33:III:2201.H.1.b.iii]

329 [LAC 33:III:2201.I.1]

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III:2201.I.1.

330 [LAC 33:III:2201.I.1]

Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III:2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III:2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.

331 [LAC 33:III:2201.I.2]

Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC

33:III:2201.D or E. Include the information specified in LAC 33:III:2201.I.2.a through I.2.d.

332 [LAC 33:III:2201.J]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III:2201.I.3 and I.4 as applicable.

EQT 0021 10-95 - No. 4 Urea Boiler

333 [40 CFR 60.44b]

Nitrogen oxides <= 0.10 lb/MMBTU (43 ng/J) heat input (expressed as NO₂). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.

Which Months: All Year Statistical Basis: Thirty-day rolling average

334 [LAC 33:III:2201.D.1]

Nitrogen oxides <= 0.10 lb/MMBTU.

335 [LAC 33:III:2201.E.1.c]

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

336 [LAC 33:III:2201.H.1.b.ii]

Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III:2201.E.1.c.i or the method in LAC 33:III:2201.E.1.c.ii.

Fuel monitored by totalizer continuously. Monitor gas and/or liquid fuel usage with a totalizing fuel meter. Provide belt scales or an equivalent device for coal-fired boilers.

Which Months: May-Sep Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

EQT 0021 10-95 - No. 4 Urea Boiler

- 337 [LAC 33:III.2201.H.1.b.ii] Diluent - either Oxygen or Carbon dioxide monitored by the regulation's specified method(s) continuously. Monitor oxygen or carbon dioxide with a diluent monitor that meets all of the requirements of performance specification 3 of 40 CFR 60, Appendix B.
- Which Months: May-Sep Statistical Basis: None specified
- Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.
- Which Months: May-Sep Statistical Basis: None specified
- Implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with LAC 33:III.2201.G to continuously demonstrate compliance with the NO_x limits of LAC 33:III.2201.D or E.
- Nitrogen oxides monitored by continuous emission monitor (CEM) continuously to demonstrate continuous compliance with the NO_x emission factors of LAC 33:III.2201.D or E. Ensure that the CEMS meets all of the requirements of 40 CFR Part 60.13 and performance specification 2 of 40 CFR 60, Appendix B, or the requirements of 40 CFR Part 75 for units regulated under the Acid Rain Program.
- Which Months: May-Sep Statistical Basis: None specified
- Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor that meets all of the requirements of performance specification 4 of 40 CFR 60, Appendix B.
- Which Months: May-Sep Statistical Basis: None specified
- Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
-
- 341 [LAC 33:III.2201.H.1.b.iv]
- 342 [LAC 33:III.2201.I.1]
- 343 [LAC 33:III.2201.I.1]
- 344 [LAC 33:III.2201.I.2]
- 345 [LAC 33:III.2201.I]
-
- 346 [LAC 33:III.2201.E.1.c]
- Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii.
- Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
- Which Months: May-Sep Statistical Basis: None specified
- Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.
- Which Months: May-Sep Statistical Basis: None specified
- Implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with LAC 33:III.2201.G to continuously demonstrate compliance with the NO_x limits of LAC 33:III.2201.D or E.
- Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.

EQT 0025 12-75 - No. 2 Urea Boiler A

- 347 [LAC 33:III.2201.H.1.a]
- Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii.
- Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
- Which Months: May-Sep Statistical Basis: None specified
- Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.
- Which Months: May-Sep Statistical Basis: None specified
- Implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with LAC 33:III.2201.G to continuously demonstrate compliance with the NO_x limits of LAC 33:III.2201.D or E.
- Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

EQT 0025 12-75 - No. 2 Urea Boiler A

- 351 [LAC 33:III.2201.1.] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.1.1.
 352 [LAC 33:III.2201.1.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.1.D or E. Include the information specified in LAC 33:III.2201.1.2.a through I.2.d.
 353 [LAC 33:III.2201.1] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.1.3 and I.4 as applicable.

EQT 0027 13-75 - No. 2 Urea Boiler B

- 354 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii.
 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
 Which Months: May-Sep Statistical Basis: None specified
 Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.
 Which Months: May-Sep Statistical Basis: None specified
 Implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with LAC 33:III.2201.G to continuously demonstrate compliance with the NO_x limits of LAC 33:III.2201.D or E.
 355 [LAC 33:III.1313.C] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.1.
 356 [LAC 33:III.2201.E.1.c] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
 Submittal report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.1.D or E. Include the information specified in LAC 33:III.2201.1.2.a through I.2.d.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.1.3 and I.4 as applicable.

EQT 0028 14-72 - No. 1 Urea Cooling Tower (CT-301)

- 364 [LAC 33:III.1311.C] Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

EQT 0029 14-75 - No. 2 Urea High Pressure Scrubber

- Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.
- Scrubber Flow rate >= 100.00 gallons/min.
- Which Months: All Year Statistical Basis: None specified
- Ammonia >= 98 % removal efficiency.
- Which Months: All Year Statistical Basis: None specified
- Scrubber Flow rate monitored by flow rate monitoring device once every four hours.
- Which Months: All Year Statistical Basis: None specified
- Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

EQT 0030 14-95 - Urea Loading Barge Dock

- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

EQT 0032 15-75 - No. 2 Urea Granulator Scrubber A

- Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or scrubber flow less than 8 gallons per minute based upon the daily average of the monitoring required every four hours. [40 CFR 64.6(c)(2)]
- Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

EQT 0032 15-75 - No. 2 Urea Granulator Scrubber A

377 [40 CFR 64.7(e)]

Submit written notification: Due to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or excedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

378 [40 CFR 64.9(a)]
Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Average scrubber flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

379 [40 CFR 64.9(b)]
Total suspended particulate <= 34.80 lb/hr. The rate of emission shall be the total of all emission points from the source.
Which Months: All Year Statistical Basis: None specified

380 [40 CFR 64.9(b)]
Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

381 [40 CFR 64.9(b)]
Scrubber Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified

382 [LAC 33:III.1311.B]
Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(4)]
Scrubbers: Equipment/operational data monitored by technically sound method at the approved frequency of every turnaround, or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary.

383 [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: None specified
Total suspended particulate >= 95 % removal efficiency.
Which Months: All Year Statistical Basis: None specified

384 [LAC 33:III.501.C.6]
Scrubber vent: Visible emissions recordkeeping by electronic or hard copy daily.
Which Months: All Year Statistical Basis: None specified

385 [LAC 33:III.501.C.6]
Scrubber vent: Visible emissions monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-000004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

EQT 0032 15-75 - No. 2 Urea Granulator Scrubber A

Scrubber Flow rate >= 8.00 gallons/min.
Which Months: All Year Statistical Basis: None specified

EQT 0035 16-75 - No. 2 Urea Granulator Scrubber B

Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or scrubber flow less than 8 gallons per minute based upon the daily average of the monitoring required every four hours. [40 CFR 64.6(c)(2)]
Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]

Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

Submit written notification: Due to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA J, 2, 3, 4

EQT 0035 16-75 - No. 2 Urea Granulator Scrubber B

Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
Average scrubber flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Total suspended particulate <= 34.80 lb/hr. The rate of emission shall be the total of all emission points from the source.

Which Months: All Year Statistical Basis: None Specified
Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average
Total suspended particulate >= 95 % removal efficiency.
Which Months: All Year Statistical Basis: None specified

Scrubber vent: Visible emissions monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified

Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

Scrubber vent: Visible emissions recordkeeping by electronic or hard copy daily.
Scrubber flow rate >= 8.00 gallons/min.

Which Months: All Year Statistical Basis: None specified
Scrubber flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified

Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(4)]
Scrubbers: Equipment/operational data monitored by technically sound method at the approved frequency of every turnaround, or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary.

Which Months: All Year Statistical Basis: None specified

EQT 0037 17-75 - No. 2 Urea Granulator Scrubber C

Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or scrubber flow less than 8 gallons per minute based upon the daily average of the monitoring required every four hours. [40 CFR 64.6(c)(2)]
Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1, 2, 3, 4

EQT 0037 17-75 - No. 2 Urea Granulator Scrubber C

- 416 [40 CFR 64.7.b] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- Submit written notification: Due to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- Average scrubber flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- Total suspended particulate <= 34.80 lb/hr. The rate of emission shall be the total of all emission points from the source.
- Which Months: All Year Statistical Basis: None Specified
- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

EQT 0037 17-75 - No. 2 Urea Granulator Scrubber C

- Scrubber vent: Visible emissions monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified
- Scrubbers: Equipment/operational data monitored by technically sound method at the approved frequency of every turnaround, or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary.
Which Months: All Year Statistical Basis: None specified
- Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
- Scrubber Flow rate >= 8.00 gallons/min.
Which Months: All Year Statistical Basis: None specified
- Scrubber vent: Visible emissions recordkeeping by electronic or hard copy daily.
Total suspended particulate >= 95 % removal efficiency
Which Months: All Year Statistical Basis: None specified
- Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(4)]
Scrubber Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]
- Scrubber Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified

EQT 0038 17-95 - No. 4 Urea/ No. 2 UAN Ammonia Flare

- Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
- Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- Presence of a flame recordkeeping by electronic or hard copy daily.
Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
- Flare gas: Heat content recordkeeping by electronic or hard copy once initially (State Only).
Presence of a flame monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified
- Flare gas: Heat content monitored by technically sound method once initially, to insure the heat content is above 300 BTU/scf (State Only).
Which Months: All Year Statistical Basis: None specified

EQT 0040 18-75 - No. 2 Urea Granulator Scrubber D

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1, 2, 3, 4

EQT 0040 18-75 - No. 2 Urea Granulator Scrubber D

- Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or scrubber flow less than 8 gallons per minute based upon the daily average of the monitoring required every four hours. [40 CFR 64.6(c)(2)]
- Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- Submit written notification: Due to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- Average scrubber Flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

EQT 0040 18-75 - No. 2 Urea Granulator Scrubber D.

- 452 [LAC 33:III.1311.C] Total suspended particulate <= 34.80 lb/hr. The rate of emission shall be the total of all emission points from the source.
Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 453 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: Six-minute average
Scrubber vent: Visible emissions recordkeeping by electronic or hard copy daily.
- 454 [LAC 33:III.501.C.6] Scrubbers: Equipment/operational data monitored by technically sound method at the approved frequency of every turnaround, or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary.
- 455 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
Total suspended particulate >= 95 % removal efficiency.
- 456 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
Scrubber Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]
- 457 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
Scrubber Flow rate >= 8.00 gallons/min.
- 458 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
- 459 [LAC 33:III.501.C.6] Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(4)]
- 460 [LAC 33:III.501.C.6] Scrubber vent: Visible emissions monitored by visual inspection/determination daily.
- 461 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified

EQT 0043 2-72 - No. 1 Urea High Pressure Scrubber

- 462 [LAC 33:III.501.C.6] Scrubber Flow rate >= 60.00 gallons/min.
Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
- 463 [LAC 33:III.501.C.6] Ammonia >= 98 % removal efficiency.
- 464 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.
- 465 [LAC 33:III.501.C.6] Scrubber Flow rate monitored by flow rate monitoring device once every four hours.
- 466 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified

EQT 0045 2-92 - No. 2 Urea UF-85 Storage Tank

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1, 2, 3, 4

EQT 0045 2-92 - No. 2 Urea UF-85 Storage Tank

Flow path: The tank scrubber effluent liquid shall be routed to the No. 2 Granulator scrubbers (17-75 and/or 18-75) to be recycled with the granulator solution. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if any tank scrubber effluent liquid is not routed to the No. 2 Granulator scrubbers.

Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

Scrubber Flow rate monitored by flow rate monitoring device once every four hours.

Which Months: All Year Statistical Basis: None specified

Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.

Formaldehyde >= 80 % removal efficiency.

Which Months: All Year Statistical Basis: None specified

Scrubber Flow rate >= 10.00 gallons/min.

Which Months: All Year Statistical Basis: None specified

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ on July 14, 1994, under Certification of Compliance No.: CCG2034. Requested potential Formaldehyde emissions from tanks 1-72, 2-92, and 6-95 exceeded the minimum emission rate of 260 lbs per year in 1998, requiring a MACT analysis of the emission controls. The existing scrubbers with an 80% efficiency were determined to be MACT and approved on February 3, 1998.

Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.

Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

EQT 0046 2-95 - No. 4 Urea Granulator

Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or granulator scrubber flow less than 7 gallons per minute, or cooler scrubber flow less than 23 gallons per minute based upon the daily average of the scrubber flow monitoring required every four hours. [40 CFR 64.6(c)(2)]

Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]

Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA I, 2, 3, 4

EQT 0046 2-95 - No. 4 Urea Granulator

- Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- Submit written notification: Due to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- Average scrubber flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Total suspended particulate <= 53.10 lb/hr. The rate of emission shall be the total of all emission points from the source.
- Which Months: All Year Statistical Basis: None specified
- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: Six-minute average
- Total suspended particulate >= 95 % removal efficiency from the Granulator and Cooler scrubbers. (PSD-LA-594).
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1, 2, 3, 4

EQT 0046 2-95 - No. 4 Urea Granulator

- 490 [LAC 33:III.509] Granulator scrubber Flow rate monitored by flow rate monitoring device once every four hours. Make records available for inspection by DEQ personnel. (PSD-LA-594). [LAC 33:III.509, 40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified
- 491 [LAC 33:III.509] Cooler scrubber Flow rate monitored by flow rate monitoring device once every four hours. Make records available for inspection by DEQ personnel. (PSD-LA-594). [LAC 33:III.509, 40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified
- 492 [LAC 33:III.509] Granulator scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. (PSD-LA-594). [LAC 33:III.509, 40 CFR 64.6(c)(4)]
Cooler scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. Make records available for inspection by DEQ personnel. (PSD-LA-594). [LAC 33:III.509, 40 CFR 64.6(c)(4)]
- 493 [LAC 33:III.509] Granulator scrubber Flow rate \geq 7.00 gallons/min of dilute urea solution. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the scrubber flow rate is less than the minimum listed in this specific condition for any hourly period. (PSD-LA-594).
Which Months: All Year Statistical Basis: None specified
- 494 [LAC 33:III.509] Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the Granulator and Cooler scrubbers operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. (PSD-LA-594).
Cooler scrubber Flow rate \geq 23.0 gallons/min of purified process condensate. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the scrubber flow rate is less than the minimum listed in this specific condition for any hourly period. (PSD-LA-594).
Which Months: All Year Phases: Statistical Basis:
- 495 [LAC 33:III.509]
- 496 [LAC 33:III.509]
- EQT 0049 21-95 - No. 4 Urea Cooling Tower (CT-301)**
- 497 [LAC 33:III.1311.C] Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average
- 498 [LAC 33:III.509] Drift Eliminators shall be operated in accordance with the manufacturer instructions to control particulate emissions as established as BACT per PSD permit PSD-LA-594.
- EQT 0057 3-72 - No. 1 Urea Granulator Scrubber "A"**
- 499 [40 CFR 64.3.b.3] Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or scrubber flow less than 8 gallons per minute based upon the daily average of the monitoring required every four hours. [40 CFR 64.6(c)(2)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1, 2, 3, 4

EQT 0057 3-72 - No. 1 Urea Granulator Scrubber "A"

- 501 [40 CFR 64.7.a] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 502 [40 CFR 64.7.b] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 503 [40 CFR 64.7.c] Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 504 [40 CFR 64.7.d] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 505 [40 CFR 64.7.e] Submit written notification to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 506 [40 CFR 64.9.a] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(ii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 507 [40 CFR 64.9.b.1] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 508 [40 CFR 64.9.b.1] Average scrubber flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 509 [40 CFR 64.9.b.1] Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 510 {LAC 33:III.1311.B} Total suspended particulate <= 32.90 lb/hr. The rate of emission shall be the total of all emission points from the source.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
 Activity Number: PER20080003
 Permit Number: 0180-00004-V4
 Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

EQT 0057 3-72 - No. 1 Urea Granulator Scrubber "A"

511	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
512	[LAC 33:III.501.C.6]	Which Months: All Year Statistical Basis: Six-minute average
513	[LAC 33:III.501.C.6]	Scrubber vent: Visible emissions recordkeeping by electronic or hard copy daily.
514	[LAC 33:III.501.C.6]	Scrubber Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]
515	[LAC 33:III.501.C.6]	Which Months: All Year Statistical Basis: None specified
516	[LAC 33:III.501.C.6]	Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(4)]
517	[LAC 33:III.501.C.6]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
518	[LAC 33:III.501.C.6]	Scrubber vent: Visible emissions monitored by visual inspection/determination daily.
519	[LAC 33:III.501.C.6]	Which Months: All Year Statistical Basis: None specified

EQT 0066 4-72 - No. 1 Urea Granulator Scrubber "B"

520	[40 CFR 64.3.b.3]	Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
521	[40 CFR 64.6.c.2]	An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or scrubber flow less than 8 gallons per minute based upon the daily average of the monitoring required every four hours. [40 CFR 64.6(c)(2)]
522	[40 CFR 64.7.a]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
523	[40 CFR 64.7.b]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
524	[40 CFR 64.7.c]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1,2,3,4

EQT 0066 4-72 - No. 1 Urea Granulator Scrubber "B"

525 [40 CFR 64.7(d)]

Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

526 [40 CFR 64.7(e)]

Submit written notification. Due to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

527 [40 CFR 64.9(a)]

Submit report. Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

528 [40 CFR 64.9(b)]

Average scrubber flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

529 [40 CFR 64.9(b)]

Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

530 [40 CFR 64.9(b)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

531 [LAC 33:III.1311.B]

Total suspended particulate <= 32.90 lb/hr. The rate of emission shall be the total of all emission points from the source.

532 [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

533 [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Six-minute average
Scrubber flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]

534 [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified
Scrubber flow rate >= 8 00 gallons/min.

535 [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified
Scrubber vent: Visible emissions monitored by visual inspection/determination daily.

536 [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified
Submit report: Due annually by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
Scrubber vent: Visible emissions recordkeeping by electronic or hard copy daily.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4

EQT 0066 4-72 - No. 1 Urea Granulator Scrubber "B"

- 538 [LAC 33:III.501.C.6] Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(4)]
539 [LAC 33:III.501.C.6] Scrubbers: Equipment/operational data monitored by technically sound method at the approved frequency of every turnaround, or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary.
Which Months: All Year Statistical Basis: None specified
Total suspended particulate >= 95 % removal efficiency.
Which Months: All Year Statistical Basis: None specified

EQT 0071 47-75 - Complex II Urea/UAN Ammonia Flare

- 541 [LAC 33:III.1105] Opacity <20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33.1.3923. Notification is required only if the upset cannot be controlled in six hours.
Flare gas: Heat content monitored by technically sound method once initially, to insure the heat content is above 300 BTU/scf (State Only).
Which Months: All Year Statistical Basis: None specified
Presence of a flame recordkeeping by electronic or hard copy daily.
Presence of a flame monitored by visual inspection/determination daily to ensure pilot is lit.
Which Months: All Year Statistical Basis: None specified
Flare gas: Heat content recordkeeping by electronic or hard copy once initially (State Only).
Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

EQT 0074 5-72 - No. 1 Urea Granulator Scrubber "C"

- 548 [40 CFR 64.3.b.3] Specific QA/QC Procedures: Calibrate, operate, and maintain scrubber flow rate instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
An excursion or exceedance is defined as opacity greater than 20%, verified by performing 40 CFR 60, Appendix A, Method 9, or scrubber flow less than 8 gallons per minute based upon the daily average of the monitoring required every four hours. [40 CFR 64.6(c)(2)]
Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4.

EQT 0074 5-72 - No. 1 Urea Granulator Scrubber "C"

Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system [40 CFR 64.7(c)].

552 [40 CFR 64.7.c]

Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions) [40 CFR 64.7(d)(1)].

Submit written notification: Due to the Office of Environmental Compliance within 7 days upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

Average scrubber flow rate recordkeeping by electronic or hard copy daily. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Flow rate recordkeeping by electronic or hard copy daily. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring, maintenance, or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Total suspended particulate <= 32.90 lb/hr. The rate of emission shall be the total of all emission points from the source.
Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average
Scrubber Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified

553 [40 CFR 64.7.d.1]

554 [40 CFR 64.7.e]

555 [40 CFR 64.9.a]

556 [40 CFR 64.9.b.1]

557 [40 CFR 64.9.b.1]

558 [40 CFR 64.9.b.1]

559 [LAC 33:III.1311.B]

560 [LAC 33:III.1311.C]

561 [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1,2,3,4

EQT 0074 5-72 - No. 1 Urea Granulator Scrubber "C"

- 562 [LAC 33:III.501.C.6] Scrubbers: Equipment/operational data monitored by technically sound method at the approved frequency of every turnaround, or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary.
Which Months: All Year Statistical Basis: None specified
Scrubber vent: Visible emissions monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified
Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6, 40 CFR 64.6(c)(4)]
Scrubber vent: Visible emissions recordkeeping by electronic or hard copy daily.
Total suspended particulate $\geq 95\%$ removal efficiency.
Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
Scrubber Flow rate ≥ 8.00 gallons/min.
Which Months: All Year Statistical Basis: None specified

EQT 0085 6-95 - No. 4 Urea UF-85 Storage Tank

- 569 [LAC 33:III.5109.A] Formaldehyde $\geq 80.0\%$ removal efficiency.
Which Months: All Year Statistical Basis: None specified
Scrubber Flow rate ≥ 10.00 gallons/min.
Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.
Scrubber Flow rate monitored by flow rate monitoring device once every four hours.
Which Months: All Year Statistical Basis: None specified
Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ on July 14, 1994, under Certification of Compliance No.: CC92034. Requested potential Formaldehyde emissions from tanks 7-72, 2-92, and 6-95 exceeded the minimum emission rate of 260 lbs per year in 1998, requiring a MACT analysis of the emission controls. The existing scrubbers with an 80% efficiency were determined to be MACT and approved on February 3, 1998.
Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

EQT 0087 61-75 - No. 2 Urea Cooling Tower (CT-301)

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

EQT 0087 61-75 - No. 2 Urea Cooling Tower (CT-301)

577 [LAC 33:III.131.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0091 7-72 - No. 1 Urea UF-85 Storage Tank

578 [LAC 33:III.5109.A] Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.

579 [LAC 33:III.5109.A] Scrubber Flow rate >= 10.00 gallons/min.

580 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified

581 [LAC 33:III.5109.A] Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.

582 [LAC 33:III.5109.A] Formaldehyde >= 80.0 % removal efficiency.

583 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ on July 14, 1994, under Certification of Compliance No.: CCGR2034. Requested potential Formaldehyde emissions from tanks 7-72, 2-92, and 6-95 exceeded the minimum emission rate of 260 lbs per year in 1998, requiring a MACT analysis of the emission controls. The existing scrubbers with an 80% efficiency were determined to be MACT and approved on February 3, 1998.

584 [LAC 33:III.5113.C.1] Scrubber Flow rate monitored by flow rate monitoring device once every four hours.

585 [LAC 33:III.5113.C.2] Which Months: All Year Statistical Basis: None specified

Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.

Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

EQT 0094 8-72 - Urea Barge/Ship Loading

586 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

587 [40 CFR 63.1022.c.3] Unsafe- and difficult-to-monitor equipment: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of equipment designated as unsafe-to-monitor according to the provisions of 40 CFR 63.1022(c)(1) and the planned schedule for monitoring this equipment. Also record the identity of equipment designated as difficult-to-monitor according to the provisions of 40 CFR 63.1022(c)(2), the planned schedule for monitoring this equipment, and an explanation why the equipment is unsafe or difficult-to-monitor. Keep this record at the plant and make available for review by an inspector. Subpart UU [40 CFR 63.1022(c)(3)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

- 588 [40 CFR 63.1022.c.4.(i)] Unsafe-to-monitor equipment: Have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(e)(1)(v) through (viii) for pumps, 40 CFR 63.1027(a) and (b) for connectors, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(i)]
- 589 [40 CFR 63.1022.c.4.(ii)] Difficult-to-monitor equipment: Have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) for valves, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(ii)]
- 590 [40 CFR 63.1022.d.2] Connectors (unsafe-to-repair): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of connectors designated as unsafe-to-repair and an explanation of why the connectors are unsafe-to-repair. Subpart UU. [40 CFR 63.1022(d)(2)]
- 591 [40 CFR 63.1022.f] Equipment in heavy liquid service: Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service; or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service. Subpart UU. [40 CFR 63.1022(f)]
- 592 [40 CFR 63.1022] Identify equipment subject to 40 CFR 63 Subpart UU as specified in 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.
- 593 [40 CFR 63.1023.e.1] Attach a weatherproof and readily visible identification to leaking equipment, when a leak is detected pursuant to the monitoring specified in 40 CFR 63.1023(a). Subpart UU. [40 CFR 63.1023(e)(1)]
- 594 [40 CFR 63.1023.e.2] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a leak. Record the information specified in 40 CFR 63.1024(f) when a leak is detected. Keep the records pursuant to the referencing subpart, except keep information for connectors complying with the 8 year monitoring period allowed under 40 CFR 63.1027(b)(3)(iii) for 5 years beyond the date of its last use. Subpart UU. [40 CFR 63.1023(e)(2)]
- 595 [40 CFR 63.1024.a] Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]
- 596 [40 CFR 63.1024.d] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1024(d)]
- 597 [40 CFR 63.1025.b.3.(i)] Valves in gas/vapor service and light liquid service (the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(i)]
- 598 [40 CFR 63.1025.b.3.(ii)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and light liquid service (less than the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks, except as specified in 40 CFR 63.1025(b)(3)(iii) through (b)(3)(v). If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(ii)]
- 599 [40 CFR 63.1025.b.3.(iii)] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

599	[40 CFR 63.1025.b.3.(iii)]	Valves in gas/vapor service and light liquid service (less than 1% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 semiannually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iii)]
600	[40 CFR 63.1025.b.3.(iv)]	Valves in gas/vapor service and light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iv)]
601	[40 CFR 63.1025.b.3.(v)]	Valves in gas/vapor service and light liquid service (less than 0.25% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(v)]
		Which Months: All Year Statistical Basis: None specified
602	[40 CFR 63.1025.b.3.(vi)]	Valves in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the monitoring schedule for each process unit. Subpart UU. [40 CFR 63.1025(b)(3)(vi)]
603	[40 CFR 63.1025.c.1.(ii)]	Valves in gas/vapor service and light liquid service: Calculate the percent leaking valves for each monitoring period for each process unit or valve subgroup using the equation in 40 CFR 63.1025(c)(1)(ii). Subpart UU. [40 CFR 63.1025(c)(1)(ii)]
604	[40 CFR 63.1025.d.2]	Valves in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within three months after repair of a leak to determine whether the valve has resumed leaking. Subpart UU. [40 CFR 63.1025(d)(2)]
605	[40 CFR 63.1025.e.1]	Valves in gas/vapor service and light liquid service (unsafe-to-monitor): Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2). Subpart UU. [40 CFR 63.1025(e)(1)]
		Which Months: All Year Statistical Basis: None specified
606	[40 CFR 63.1025.c.2]	Valves in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. Monitor at least once per calendar year. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b). Subpart UU. [40 CFR 63.1025(e)(2)]
		Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

607 [40 CFR 63.1025.e.3]

Valves in gas/vapor service and light liquid service (fewer than 250 valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the monthly monitoring specified in 40 CFR 63.1025(b)(3)(i). Subpart UU. [40 CFR 63.1025(e)(3)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(b)(4)(i) or (b)(4)(ii). Subpart UU. [40 CFR 63.1026(b)(4)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1026(b)(4)]

Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1026(d). Initiate repairs for pumps with a 1,000 ppm leak definition only when an instrument reading of 2,000 ppm or greater is detected. Subpart UU. [40 CFR 63.1026(b)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Implement a quality improvement program that complies with 40 CFR 63.1035 if, when calculated on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart UU. [40 CFR 63.1026(c)(2)]

Pumps in light liquid service: Determine percent leaking pumps using the equation specified in 40 CFR 63.1026(c)(4). Subpart UU. [40 CFR 63.1026(c)(4)]

Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]

Pumps in light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Make records available for review by an inspector. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]

Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except periods of startup, shutdown, or malfunction) greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(ii)]

Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

- 617 [40 CFR 63.1026.e.1.(iv)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iv)]
- 618 [40 CFR 63.1026.e.1.(v)] Pumps in light liquid service (dual mechanical seal system): Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 619 [40 CFR 63.1026.e.1.(v)] Pumps in light liquid service (dual mechanical seal system): Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(e)(1)(v)(A) or (e)(1)(v)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 620 [40 CFR 63.1026.e.1.(vii)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vii)]
- 621 [40 CFR 63.1026.e.4] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor as often as practical and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirement of 40 CFR 63.1026(b)(4) and (e)(1)(v), and the daily requirements of 40 CFR 63.1026(e)(1)(vii). Subpart UU. [40 CFR 63.1026(e)(4)]
- 622 [40 CFR 63.1026.e.6] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements of 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii). Subpart UU. [40 CFR 63.1026(e)(6)]
- 623 [40 CFR 63.1027.a] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor all connectors in each process unit initially for leaks by the later of either 12 months after the compliance date as specified in a referencing subpart or 12 months after initial startup. If an instrument reading of 500 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(a)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

- Connectors in gas/vapor service and light liquid service (0.5% or greater leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 12 months after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service and light liquid service (greater than or equal to 0.25% but less than 0.5% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 4 years after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service and light liquid service (less than 0.25% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor connectors as specified in 40 CFR 63.1027(b)(3)(iii)(A) and either (b)(3)(iii)(B) or (b)(3)(iii)(C), as appropriate. If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(iii)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 90 days after repair of a connector that is found to be leaking during the monitoring conducted pursuant to 40 CFR 63.1027(b)(3)(i) through (b)(3)(iii), to confirm that it is not leaking. Subpart UU. [40 CFR 63.1027(b)(3)(iv)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the start date and end date of each monitoring period under 40 CFR 63.1027 for each process unit. Subpart UU. [40 CFR 63.1027(b)(3)(v)]
- Connectors in gas/vapor service and light liquid service: Calculate percent leaking connectors using the equation in 40 CFR 63.1027(c). Subpart UU. [40 CFR 63.1027(c)]
- Connectors in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1027(a) and (b). Subpart UU. [40 CFR 63.1027(e)(1)]
- Which Months: All Year Statistical Basis: None specified
- Connectors in gas/vapor service and light liquid service (inaccessible, ceramic, or ceramic-lined): Eliminate the visual, audible, olfactory, or other indications of a leak to the atmosphere as soon as practical, if connector is observed by visual, audible, olfactory, or other means to be leaking. Comply with this requirement in lieu of the monitoring requirements of 40 CFR 63.1027(a) and (b), and the recordkeeping and reporting requirements of 63.1038 and 63.1039. Subpart UU. [40 CFR 63.1027(e)(2)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

- Agitators in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1028(e). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1028(d). Subpart UU. [40 CFR 63.1028(c)(1)]
Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(3)(ii)(A) or (c)(3)(ii)(B) prior to the next required inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except during periods of startup, shutdown, or malfunction) greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b), or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(c)(1)(i)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(c)(1)(ii)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(c)(1)(iii)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(1)(iv)(A) or (c)(1)(iv)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(c)(1)(iv)]
Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator seal is located within the boundary of an unmanned plant site. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(v)]
Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates a failure of the seal system, the barrier fluid system, or both, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(vi)(A)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

- 641 [40 CFR 63.1028.e.1.(vi)(B)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU [40 CFR 63.1028(e)(1)(vi)(B)]
- 642 [40 CFR 63.1028.e.4] Agitators in gas/vapor service and light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirements of 40 CFR 63.1028(c)(3) and (e)(1)(iv) and the daily requirements of 40 CFR 63.1028(e)(1)(v). Subpart UU [40 CFR 63.1028(e)(4)]
- 643 [40 CFR 63.1028.e.5] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor at least once per calendar year. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU [40 CFR 63.1028(e)(5)]
- 644 [40 CFR 63.1028.e.7] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU [40 CFR 63.1028(e)(7)]
- 645 [40 CFR 63.1029.b] Which Months: All Year Statistical Basis: None specified Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired as required in 40 CFR 63.1029(c). If an instrument reading of 10,000 ppm or greater (agitators), 5,000 ppm or greater (pumps handling polymerizing monomers), 2,000 ppm or greater (pumps in food and medical service, and all other pumps), or 500 ppm or greater (valves, connectors, instrumentation systems, and pressure relief devices) is measured, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1029(b)]
- 646 [40 CFR 63.1030.b] Which Months: All Year Statistical Basis: None specified Pressure relief devices in gas/vapor service: Organic HAP < 500 ppm except during pressure releases as provided for in 40 CFR 63.1030(c), or as otherwise specified in 40 CFR 63.1036, 63.1037, or 63.1030(d) or (e). Subpart UU. [40 CFR 63.1030(b)]
- 647 [40 CFR 63.1030.c.1] Which Months: All Year Statistical Basis: None specified Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Subpart UU. [40 CFR 63.1030(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004UREA 1,2,3,4.

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

- Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release to confirm the condition indicated by an instrument reading of less than 500 ppm above background. Subpart UU. [40 CFR 63.1030(c)(2)]
- Which Months: All Year Statistical Basis: None specified
- Pressure relief devices in gas/vapor service: Monitoring data recordkeeping by electronic or hard copy within 5 days (calendar) after a pressure release. Record the dates and results of the monitoring required by 40 CFR 63.1030(c)(2) following a pressure release, including the background level measured and the maximum instrument reading measured during the monitoring. Subpart UU. [40 CFR 63.1030(c)(3)]
- Pressure relief devices in gas/vapor service (rupture disk): Install a replacement rupture disk upstream of the pressure relief device as soon as practical after each pressure release but no later than 5 calendar days after each pressure release, excepts provided in 40 CFR 63.1024(d). Comply with this requirement in lieu of the requirements in 40 CFR 63.1030(b) and (c). Subpart UU. [40 CFR 63.1030(e)]
- Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1031(e) and (f). Subpart UU. [40 CFR 63.1031(b)]
- Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times (except during periods of startup, shutdown, or malfunction), or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart UU. [40 CFR 63.1031(b)]
- Compressors (sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an alarm unless the compressor is located within the boundary of an unmanned plant site. Subpart UU. [40 CFR 63.1031(c)]
- Which Months: All Year Statistical Basis: None specified
- Compressors: Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart UU. [40 CFR 63.1031(c)]
- Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart UU. [40 CFR 63.1031(c)]
- Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1031(j)(1)]
- Compressors: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Subpart UU. [40 CFR 63.1031(d)(2)]
- Compressors (routed to a process or fuel gas system or equipped with a closed-vent system): Equip with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed-vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either 40 CFR 63.1034 or 63.1021(b). Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(e)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

AIr - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0001 10-72 - No. 1 Urea Plant Fugitives

- 659 [40 CFR 63.1031.f.1] Compressors (operating with instrument reading of less than 500 ppm above background): Organic HAP < 500 ppm above background at all times, as demonstrated initially upon designation, annually, and at other times requested by DEQ. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(1)]
- 660 [40 CFR 63.1031.f.2] Which Months: All Year Statistical Basis: None Specified Compressors (operating with instrument reading of less than 500 ppm above background): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a compliance test. Record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(2)]
- Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1032(d). Operate the system as specified in 40 CFR 63.1032(c)(1) through (c)(5). Subpart UU.
- Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1033(c) and (d). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart UU. [40 CFR 63.1033(b)]
- Keep the records specified in 40 CFR 63.1038(b) and (c). Subpart UU.
- Submit Initial Compliance Status Report: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU. [40 CFR 63.1039(a)]
- Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. [40 CFR 63.1039(b)]
- Comply with the requirements in 40 CFR 63 Subpart UU and the requirements referenced therein, except as specified in 40 CFR 63.2480(n) and (d). Subpart FFFF. [40 CFR 63.2480(a)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7.
- Include emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.
- Compliance with NESHAP 40 CFR 63 Subpart FFFF has been determined to be compliance with MACT in accordance with LAC 33.III.5109.A.2.

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 671 [40 CFR 63.1022.c.3] Unsafe- and difficult-to-monitor equipment: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of equipment designated as unsafe-to-monitor according to the provisions of 40 CFR 63.1022(c)(1) and the planned schedule for monitoring this equipment. Also record the identity of equipment designated as difficult-to-monitor according to the provisions of 40 CFR 63.1022(c)(2), the planned schedule for monitoring this equipment, and an explanation why the equipment is unsafe or difficult-to-monitor. Keep this record at the plant and make available for review by an inspector. Subpart UU. [40 CFR 63.1022(c)(3)]
- 672 [40 CFR 63.1022.c.4.(i)] Unsafe-to-monitor equipment: Have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2) for valves, 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii) for pumps, 40 CFR 63.1027(a) and (b) for connectors, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(i)]
- 673 [40 CFR 63.1022.c.4.(ii)] Difficult-to-monitor equipment: Have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) for valves, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(ii)]
- 674 [40 CFR 63.1022.d.2] Connectors (unsafe-to-repair): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of connectors designated as unsafe-to-repair and an explanation of why the connectors are unsafe-to-repair. Subpart UU. [40 CFR 63.1022(d)(2)]
- 675 [40 CFR 63.1022.f] Equipment in heavy liquid service: Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service, or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service. Subpart UU. [40 CFR 63.1022(f)]
- 676 [40 CFR 63.1022] Identify equipment subject to 40 CFR 63 Subpart UU as specified in 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.
- 677 [40 CFR 63.1023.e.1] Attach a weatherproof and readily visible identification to leaking equipment, when a leak is detected pursuant to the monitoring specified in 40 CFR 63.1023(a). Subpart UU. [40 CFR 63.1023(e)(1)]
- 678 [40 CFR 63.1023.e.2] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a leak. Record the information specified in 40 CFR 63.1024(f) when a leak is detected. Keep the records pursuant to the referencing subpart, except keep information for connectors complying with the 8 year monitoring period allowed under 40 CFR 63.1027(b)(3)(iii) for 5 years beyond the date of its last use. Subpart UU. [40 CFR 63.1023(e)(2)]
- 679 [40 CFR 63.1024.a] Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]
- 680 [40 CFR 63.1024.d] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1024(d)]
- 681 [40 CFR 63.1025.b.3.(i)] Valves in gas/vapor service and light liquid service (the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 682 [40 CFR 63.1025.b.3.(ii)] Valves in gas/vapor service and light liquid service (less than the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks, except as specified in 40 CFR 63.1025(b)(3)(iii) through (b)(3)(v). If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 1% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 semiannually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iii)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(iv)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (less than 0.25% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU. [40 CFR 63.1025(b)(3)(v)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the monitoring schedule for each process unit. Subpart UU. [40 CFR 63.1025(b)(3)(vi)]
- Valves in gas/vapor service and light liquid service: Calculate the percent leaking valves for each monitoring period for each process unit or valve subgroup using the equation in 40 CFR 63.1025(c)(1)(ii). Subpart UU. [40 CFR 63.1025(c)(1)(ii)]
- Valves in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within three months after repair of a leak to determine whether the valve has resumed leaking. Subpart UU. [40 CFR 63.1025(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2). Subpart UU. [40 CFR 63.1025(e)(1)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1,2,3,4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 690 [40 CFR 63.1025.c.2] Valves in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. Monitor at least once per calendar year. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b). Subpart UU. [40 CFR 63.1025(e)(2)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and light liquid service (fewer than 250 valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21, quarterly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the monthly monitoring specified in 40 CFR 63.1025(b)(3)(i). Subpart UU. [40 CFR 63.1025(e)(3)]
- Which Months: All Year Statistical Basis: None specified
- Pumps in light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1026(b)(4)]
- Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(b)(4)(i) or (b)(4)(ii). Subpart UU. [40 CFR 63.1026(b)(4)]
- Which Months: All Year Statistical Basis: None specified
- Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1026(d). Initiate repairs for pumps with a 1,000 ppm leak definition only when an instrument reading of 2,000 ppm or greater is detected. Subpart UU. [40 CFR 63.1026(b)]
- Which Months: All Year Statistical Basis: None specified
- Pumps in light liquid service: Implement a quality improvement program that complies with 40 CFR 63.1035 if, when calculated on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart UU. [40 CFR 63.1026(c)(2)]
- Pumps in light liquid service: Determine percent leaking pumps using the equation specified in 40 CFR 63.1026(c)(4). Subpart UU. [40 CFR 63.1026(c)(4)]
- Pumps in light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Make records available for review by an inspector. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]
- Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

699 [40 CFR 63.1026.e.1.(ii)]

Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except periods of startup, shutdown, or malfunction) greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(ii)]

700 [40 CFR 63.1026.e.1.(iii)]

Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]

701 [40 CFR 63.1026.e.1.(iv)]

Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iv)]

702 [40 CFR 63.1026.e.1.(v)]

Pumps in light liquid service (dual mechanical seal system): Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]

703 [40 CFR 63.1026.e.1.(vi)]

Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(e)(1)(v)(A) or (e)(1)(v)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vi)]

704 [40 CFR 63.1026.e.1.(vii)]

Which Months: All Year Statistical Basis: None specified
Pumps in light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vii)]

705 [40 CFR 63.1026.e.4]

Which Months: All Year Statistical Basis: None specified
Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor as often as practical and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirement of 40 CFR 63.1026(b)(4) and (e)(1)(v), and the daily requirements of 40 CFR 63.1026(e)(1)(vii). Subpart UU. [40 CFR 63.1026(e)(4)]

706 [40 CFR 63.1026.e.6]

Which Months: All Year Statistical Basis: None specified
Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements of 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii). Subpart UU. [40 CFR 63.1026(e)(6)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 707 [40 CFR 63.1027.a] Connectors in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor all connectors in each process unit initially for leaks by the later of either 12 months after the compliance date as specified in a referencing subpart or 12 months after initial startup. If an instrument reading of 500 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(a)]
- 708 [40 CFR 63.1027.b.3.(ii)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service (0.5% or greater leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 12 months after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU.
- 709 [40 CFR 63.1027.b.3.(ii)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service (greater than or equal to 0.25% but less than 0.5% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 4 years after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(ii)]
- 710 [40 CFR 63.1027.b.3.(iii)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service (less than 0.25% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor connectors as specified in 40 CFR 63.1027(b)(3)(ii)(A) and either (b)(3)(ii)(B) or (b)(3)(ii)(C), as appropriate. If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(iii)]
- 711 [40 CFR 63.1027.b.3.(iv)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 90 days after repair of a connector that is found to be leaking during the monitoring conducted pursuant to 40 CFR 63.1027(b)(3)(i) through (b)(3)(iii), to confirm that it is not leaking. Subpart UU. [40 CFR 63.1027(b)(3)(iv)]
- 712 [40 CFR 63.1027.b.3.(v)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the start date and end date of each monitoring period under 40 CFR 63.1027 for each process unit. Subpart UU.
- 713 [40 CFR 63.1027.c] Subpart UU. [40 CFR 63.1027(c)]
- 714 [40 CFR 63.1027.e.1] Connectors in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1027(a) and (b).
- Subpart UU. [40 CFR 63.1027(e)(1)]
- 715 [40 CFR 63.1027.f] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 715 [40 CFR 63.1027.e.2.(ii)] Connectors in gas/vapor service and light liquid service (inaccessible, ceramic, or ceramic-lined): Eliminate the visual, audible, olfactory, or other indications of a leak to the atmosphere as soon as practical, if connector is observed by visual, audible, olfactory, or other means to be leaking. Comply with this requirement in lieu of the monitoring requirements of 40 CFR 63.1027(a) and (b), and the recordkeeping and reporting requirements of 63.1038 and 63.1039. Subpart UU. [40 CFR 63.1027(e)(2)(ii)]
- 716 [40 CFR 63.1028.c.1] Agitators in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1028(e). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1028(d). Subpart UU. [40 CFR 63.1028(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(3)(i)(A) or (C)(3)(i)(B) prior to the next required inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except during periods of startup, shutdown, or malfunction) greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(i)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(ii)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iii)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(e)(1)(iv)(A) or (e)(1)(iv)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iv)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator seal is located within the boundary of an unmanned plant site. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(v)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 724 [40 CFR 63.1028.e.1.(vi)(A)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates a failure of the seal system, the barrier fluid system, or both, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(e)(1)(vi)(A)]
Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c).
Subpart UU [40 CFR 63.1028(e)(1)(vi)(B)]
Agitators in gas/vapor service and light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirements of 40 CFR 63.1028(c)(3) and (c)(1)(iv) and the daily requirements of 40 CFR 63.1028(e)(1)(v).
Subpart UU [40 CFR 63.1028(e)(4)]
Which Months: All Year Statistical Basis: None specified
Agitators in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor at least once per calendar year. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU [40 CFR 63.1028(e)(5)]
Which Months: All Year Statistical Basis: None specified
Agitators in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU [40 CFR 63.1028(e)(7)]
Which Months: All Year Statistical Basis: None specified
Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired as required in 40 CFR 63.1029(c). If an instrument reading of 10,000 ppm or greater (agitators), 5,000 ppm or greater (pumps handling polymerizing monomers), 2,000 ppm or greater (pumps in food and medical service, and all other pumps), or 500 ppm or greater (valves, connectors, instrumentation systems, and pressure relief devices) is measured, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1029(b)]
Which Months: All Year Statistical Basis: None specified
Pressure relief devices in gas/vapor service: Organic HAP < 500 ppm except during pressure releases as provided for in 40 CFR 63.1030(c), or as otherwise specified in 40 CFR 63.1036, 63.1037, or 63.1030(d) or (e). Subpart UU. [40 CFR 63.1030(b)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 731 [40 CFR 63.1030.c.1] Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Subpart UU. [40 CFR 63.1030(c)(1)]
- 732 [40 CFR 63.1030.c.2] Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release to confirm the condition indicated by an instrument reading of less than 500 ppm above background. Subpart UU. [40 CFR 63.1030(c)(2)]
- 733 [40 CFR 63.1030.c.3] Which Months: All Year Statistical Basis: None specified Pressure relief devices in gas/vapor service: Monitoring data recordkeeping by electronic or hard copy within 5 days (calendar) after a pressure release. Record the dates and results of the monitoring required by 40 CFR 63.1030(c)(2) following a pressure release including the background level measured and the maximum instrument reading measured during the monitoring. Subpart UU. [40 CFR 63.1030(c)(3)]
- 734 [40 CFR 63.1030.e] Pressure relief devices in gas/vapor service (rupture disk): Install a replacement rupture disk upstream of the pressure relief device as soon as practical after each pressure release but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Comply with this requirement in lieu of the requirements in 40 CFR 63.1030(b) and (c). Subpart UU. [40 CFR 63.1030(e)]
- 735 [40 CFR 63.1031.b] Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times (except during periods of startup, shutdown, or malfunction); or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart UU. [40 CFR 63.1031(b)]
- 736 [40 CFR 63.1031.b] Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1031(e) and (f). Subpart UU. [40 CFR 63.1031(b)]
- 737 [40 CFR 63.1031.c] Compressors: Ensure that the barrier fluid is not in liquid service. Subpart UU. [40 CFR 63.1031(c)]
- 738 [40 CFR 63.1031.c] Compressors: Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart UU. [40 CFR 63.1031(c)]
- 739 [40 CFR 63.1031.c] Compressors (sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an alarm unless the compressor is located within the boundary of an unmanned plant site. Subpart UU. [40 CFR 63.1031(c)]
- 740 [40 CFR 63.1031.d.1] Which Months: All Year Statistical Basis: None specified Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1031(d)(1)]
- 741 [40 CFR 63.1031.d.2] Compressors: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Subpart UU. [40 CFR 63.1031(d)(2)]
- 742 [40 CFR 63.1031.e] Compressors (routed to a process or fuel gas system or equipped with a closed-vent system): Equip with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed-vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either 40 CFR 63.1034 or 63.1021(b). Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(e)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4

FUG 0002 11-95 - No. 4 Urea Plant Fugitives

- 743 [40 CFR 63.1031.f.1] Compressors (operating with instrument reading of less than 500 ppm above background): Organic HAP < 500 ppm above background at all times, as demonstrated initially upon designation, annually, and at other times requested by DEQ. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(1)]
- 744 [40 CFR 63.1031.f.2] Which Months: All Year Statistical Basis: None specified Compressors (operating with instrument reading of less than 500 ppm above background): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a compliance test. Record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(2)]
- 745 [40 CFR 63.1032] Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1032(d). Operate the system as specified in 40 CFR 63.1032(c)(1) through (c)(5). Subpart UU.
- 746 [40 CFR 63.1033.b] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1033(c) and (d). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart UU. [40 CFR 63.1033(b)]
- 747 [40 CFR 63.1038] Keep the records specified in 40 CFR 63.1038(b) and (c). Subpart UU.
- 748 [40 CFR 63.1039.a] Submit Initial Compliance Status Report: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU. [40 CFR 63.1039(a)]
- 749 [40 CFR 63.1039.b] Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. [40 CFR 63.1039(b)]
- 750 [40 CFR 63.2480.a] Comply with the requirements in 40 CFR 63 Subpart UU and the requirements referenced therein, except as specified in 40 CFR 63.2480(b) and (d). Subpart FFFF. [40 CFR 63.2480(a)]
- 751 [40 CFR 63.2525] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- 752 [LAC 33:III 5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III 5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III 5105.B.
- 753 [LAC 33:III 5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart FFFF has been determined to be compliance with MACT in accordance with LAC 33:III 5109.A.2.

FUG 0006 3-91 - No. 3 Urea /No. 1 UAN Fugitives

- 754 [40 CFR 60.486(i)] Equipment/operational data recordkeeping by logbook continuously. Record and keep the specified information in a readily accessible location for use in determining exemptions as provided in 40 CFR 60.480(d). Subpart VV. [40 CFR 60.486(i)]

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

- Unsafe- and difficult-to-monitor equipment: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of equipment designated as unsafe-to-monitor according to the provisions of 40 CFR 63.1022(c)(1) and the planned schedule for monitoring this equipment. Also record the identity of equipment designated as difficult-to-monitor according to the provisions of 40 CFR 63.1022(c)(2), the planned schedule for monitoring this equipment, and an explanation why the equipment is unsafe or difficult-to-monitor. Keep this record at the plant and make available for review by an inspector. Subpart UU. [40 CFR 63.1022(c)(3)]
- Unsafe-to-monitor equipment: Have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2) for valves, 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii) for pumps, 40 CFR 63.1027(a) and (b) for connectors, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(i)]
- Difficult-to-monitor equipment: Have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in 40 CFR 63.1024 if a leak is detected. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) for valves, and 40 CFR 63.1028(c) for agitators. Subpart UU. [40 CFR 63.1022(c)(4)(ii)]
- Connectors (unsafe-to-repair): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Record the identity of connectors designated as unsafe-to-repair and an explanation of why the connectors are unsafe-to-repair. Subpart UU. [40 CFR 63.1022(d)(2)]
- Equipment in heavy liquid service: Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service; or, when requested by DEQ, demonstrate that the piece of equipment or process is in heavy liquid service. Subpart UU. [40 CFR 63.1022(f)]
- Identify equipment subject to 40 CFR 63. Subpart UU as specified in 40 CFR 63.1022(a) through (f), as applicable. Subpart UU.
- Attach a weatherproof and readily visible identification to leaking equipment, when a leak is detected pursuant to the monitoring specified in 40 CFR 63.1023(a). Subpart UU. [40 CFR 63.1023(e)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a leak. Record the information specified in 40 CFR 63.1024(f) when a leak is detected. Keep the records pursuant to the referencing subpart, except keep information for connectors complying with the 8 year monitoring period allowed under 40 CFR 63.1027(b)(3)(iii) for 5 years beyond the date of its last use. Subpart UU. [40 CFR 63.1023(e)(2)]
- Repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as specified in 40 CFR 63.1024(d) and (e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Subpart UU. [40 CFR 63.1024(a)]
- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of delay of repair of a leak. Maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown. Subpart UU. [40 CFR 63.1024(d)]
- Valves in gas/vapor service and light liquid service (the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU. [40 CFR 63.1025(b)(3)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

- 766 [40 CFR 63.1025.b.3.(iii)] Valves in gas/vapor service and light liquid service (less than the greater of 2 valves or 2% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks, except as specified in 40 CFR 63.1025(b)(3)(iii) through (b)(3)(v). If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Subpart UU [40 CFR 63.1025(b)(3)(iv)]
- 767 [40 CFR 63.1025.b.3.(iii)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and light liquid service (less than 1% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 semiannually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU [40 CFR 63.1025(b)(3)(iii)]
- 768 [40 CFR 63.1025.b.3.(iv)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU [40 CFR 63.1025(b)(3)(iv)]
- 769 [40 CFR 63.1025.b.3.(v)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and light liquid service (less than 0.25% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1025(d). Alternative to quarterly monitoring in 40 CFR 63.1025(b)(3)(ii). Subpart UU [40 CFR 63.1025(b)(3)(v)]
- 770 [40 CFR 63.1025.b.3.(vi)] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the monitoring schedule for each process unit. Subpart UU [40 CFR 63.1025(b)(3)(vi)]
- 771 [40 CFR 63.1025.c.1.(iii)] Valves in gas/vapor service and light liquid service: Calculate the percent leaking valves for each monitoring period for each process unit or valve subgroup using the equation in 40 CFR 63.1025(c)(1)(ii). Subpart UU [40 CFR 63.1025(c)(1)(ii)]
- 772 [40 CFR 63.1025.d.2] Valves in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within three months after repair of a leak to determine whether the valve has resumed leaking. Subpart UU [40 CFR 63.1025(d)(2)]
- 773 [40 CFR 63.1025.e.1] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b) and (d)(2). Subpart UU [40 CFR 63.1025(e)(1)]
- 774 [40 CFR 63.1025.e.2] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

774 [40 CFR 63.1025.e.2]

Valves in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually to detect leaks. Monitor at least once per calendar year. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1025(b). Subpart UU. [40 CFR 63.1025(e)(2)]

775 [40 CFR 63.1025.e.3]

Which Months: All Year Statistical Basis: None specified
Valves in gas/vapor service and light liquid service (fewer than 250 valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly to detect leaks. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the monthly monitoring specified in 40 CFR 63.1025(b)(3)(i). Subpart UU. [40 CFR 63.1025(e)(3)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1026(b)(4)]
Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(b)(4)(i) or (b)(4)(ii). Subpart UU. [40 CFR 63.1026(b)(4)]

Which Months: All Year Statistical Basis: None specified
Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1026(d). Initiate repairs for pumps with a 1,000 ppm leak definition only when an instrument reading of 2,000 ppm or greater is detected. Subpart UU. [40 CFR 63.1026(b)]

Which Months: All Year Statistical Basis: None specified
Pumps in light liquid service: Implement a quality improvement program that complies with 40 CFR 63.1035 if, when calculated on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart UU. [40 CFR 63.1026(c)(2)]
Pumps in light liquid service: Determine percent leaking pumps using the equation specified in 40 CFR 63.1026(c)(4). Subpart UU. [40 CFR 63.1026(c)(4)]

781 [40 CFR 63.1026.e.1.(i)]
Pumps in light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Make records available for review by an inspector. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]
Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(i)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

- 783 [40 CFR 63.1026.e.1.(iii)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except periods of startup, shutdown, or malfunction) greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either 40 CFR 63.1034 or 63.1021(b), or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(ii)]
- 784 [40 CFR 63.1026.e.1.(iii)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iii)]
- 785 [40 CFR 63.1026.e.1.(iv)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(iv)]
- 786 [40 CFR 63.1026.e.1.(v)] Pumps in light liquid service (dual mechanical seal system): Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 787 [40 CFR 63.1026.e.1.(v)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal, follow the procedure specified in 40 CFR 63.1026(e)(1)(v)(A) or (e)(1)(v)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(v)]
- 788 [40 CFR 63.1026.e.1.(vii)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1026(b). Subpart UU. [40 CFR 63.1026(e)(1)(vii)]
- 789 [40 CFR 63.1026.e.4] Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor as often as practical and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirement of 40 CFR 63.1026(b)(4) and (e)(1)(v), and the daily requirements of 40 CFR 63.1026(e)(1)(vii). Subpart UU. [40 CFR 63.1026(e)(4)]
- 790 [40 CFR 63.1026.e.6] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 5,000 ppm (pumps handling polymerizing monomers), 2,000 ppm (pumps in food/medical service), or 1,000 ppm (all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements of 40 CFR 63.1026(b) and the monitoring and inspection requirements of 40 CFR 63.1026(e)(1)(v) through (viii). Subpart UU. [40 CFR 63.1026(e)(6)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA I, 2, 3, 4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

791 [40 CFR 63.1027.a]

Connectors in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor all connectors in each process unit initially for leaks by the later of either 12 months after the compliance date as specified in a referencing subpart or 12 months after initial startup. If an instrument reading of 500 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(a)]

792 [40 CFR 63.1027.b.3.(i)]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service (0.5% or greater leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 12 months after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(i)]

793 [40 CFR 63.1027.b.3.(ii)]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service (less than 0.25% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor within 4 years after the initial monitoring specified in 40 CFR 63.1027(a). If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(ii)]

794 [40 CFR 63.1027.b.3.(iii)]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service (less than 0.25% leaking connectors): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Monitor connectors as specified in 40 CFR 63.1027(b)(3)(ii)(A) and either (b)(3)(ii)(B) or (b)(3)(ii)(C), as appropriate. If a reading of 500 ppm is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1027(d). Subpart UU. [40 CFR 63.1027(b)(3)(iii)]

795 [40 CFR 63.1027.b.3.(iv)]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 90 days after repair of a connector that is found to be leaking during the monitoring conducted pursuant to 40 CFR 63.1027(b)(3)(i) through (b)(3)(iii), to confirm that it is not leaking. Subpart UU. [40 CFR 63.1027(b)(3)(iv)]

796 [40 CFR 63.1027.b.3.(v)]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and light liquid service: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the start date and end date of each monitoring period under 40 CFR 63.1027 for each process unit. Subpart UU. [40 CFR 63.1027(b)(3)(v)]

797 [40 CFR 63.1027.c]

Connectors in gas/vapor service and light liquid service: Calculate percent leaking connectors using the equation in 40 CFR 63.1027(c). Subpart UU. [40 CFR 63.1027(c)]

798 [40 CFR 63.1027.e.1]

Connectors in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1027(a) and (b). Subpart UU. [40 CFR 63.1027(e)(1)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

- 799 [40 CFR 63.1027.e.2.(ii)] Connectors in gas/vapor service and light liquid service (inaccessible, ceramic, or ceramic-lined): Eliminate the visual, audible, olfactory, or other indications of a leak to the atmosphere as soon as practical, if connector is observed by visual, audible, olfactory, or other means to be leaking. Comply with this requirement in lieu of the monitoring requirements of 40 CFR 63.1027(a) and (b), and the recordkeeping and reporting requirements of 63.1038 and 63.1039. Subpart UU [40 CFR 63.1027(e)(2)(ii)]
- 800 [40 CFR 63.1028.c.1] Agitators in gas/vapor service and light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1028(c). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1028(d). Subpart UU. [40 CFR 63.1028(c)(1)]
- 801 [40 CFR 63.1028.c.3] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service: Inspection records recordkeeping by electronic or hard copy weekly. Document that the leak inspection was conducted and the date of the inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
- 802 [40 CFR 63.1028.c.3] Agitators in gas/vapor service and light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(c)(3)(ii)(A) or (c)(3)(ii)(B) prior to the next required inspection. Subpart UU. [40 CFR 63.1028(c)(3)]
- 803 [40 CFR 63.1028.e.1.(i)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times (except during periods of startup, shutdown, or malfunction) greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-loop system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(i)]
- 804 [40 CFR 63.1028.e.1.(iii)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iii)]
- 805 [40 CFR 63.1028.e.1.(iii)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iii)]
- 806 [40 CFR 63.1028.e.1.(iv)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal, follow the procedures specified in 40 CFR 63.1028(e)(1)(iv)(A) or (e)(1)(iv)(B) prior to the next required inspection. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(iv)]
- 807 [40 CFR 63.1028.e.1.(v)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service and light liquid service (dual mechanical seal system - sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator seal is located within the boundary of an unmanned plant site. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(v)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

808 [40 CFR 63.1028.e.1.(vi)(A)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates a failure of the seal system, the barrier fluid system, or both, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(1)(vi)(A)]

809 [40 CFR 63.1028.e.1.(vi)(B)]

Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c).

Subpart UU. [40 CFR 63.1028(e)(1)(vi)(B)]

Agitators in gas/vapor service and light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement in lieu of the weekly visual inspection requirements of 40 CFR 63.1028(c)(3) and (e)(1)(iv) and the daily requirements of 40 CFR 63.1028(e)(1)(v).

Subpart UU. [40 CFR 63.1028(e)(4)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor at least once per calendar year. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(5)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service and light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency to detect leaks. Monitor as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024. Comply with this requirement in lieu of the requirements in 40 CFR 63.1028(c). Subpart UU. [40 CFR 63.1028(e)(7)]

Which Months: All Year Statistical Basis: None specified

Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired as required in 40 CFR 63.1029(c). If an instrument reading of 10,000 ppm or greater (agitators), 5,000 ppm or greater (pumps handling polymerizing monomers), 2,000 ppm or greater (pumps in food and medical service, and all other pumps), or 500 ppm or greater (valves, connectors, instrumentation systems, and pressure relief devices) is measured, a leak is detected. If a leak is detected, repair pursuant to 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1029(b)]

Which Months: All Year Statistical Basis: None specified

Pressure relief devices in gas/vapor service: Organic HAP < 500 ppm except during pressure releases as provided for in 40 CFR 63.1030(c), or as otherwise specified in 40 CFR 63.1036, 63.1037, or 63.1030(d) or (e). Subpart UU. [40 CFR 63.1030(b)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 004 UREA 1,2,3,4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d). Subpart UU. [40 CFR 63.1030(c)(1)]

Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release to confirm the condition indicated by an instrument reading of less than 500 ppm above background. Subpart UU. [40 CFR 63.1030(c)(2)]

Which Months: All Year Statistical Basis: None specified

Pressure relief devices in gas/vapor service: Monitoring data recordkeeping by electronic or hard copy within 5 days (calendar) after a pressure release. Record the dates and results of the monitoring required by 40 CFR 63.1030(c)(2) following a pressure release including the background level measured and the maximum instrument reading measured during the monitoring. Subpart UU. [40 CFR 63.1030(e)(3)]

Pressure relief devices in gas/vapor service (rupture disk): Install a replacement rupture disk upstream of the pressure relief device as soon as practical after each pressure release but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.1024(d).

Comply with this requirement in lieu of the requirements in 40 CFR 63.1030(b) and (c). Subpart UU. [40 CFR 63.1030(e)]

Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1031(e) and (f). Subpart UU. [40 CFR 63.1031(b)]

Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times (except during periods of startup, shutdown, or malfunction), or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either 40 CFR 63.1034 or 63.1021(b); or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart UU. [40 CFR 63.1031(b)]

Compressors (sensor): Presence of a leak monitored by visual inspection/determination daily, or equip with an alarm unless the compressor is located within the boundary of an unmanned plant site. Subpart UU. [40 CFR 63.1031(c)]

Which Months: All Year Statistical Basis: None specified

Compressors: Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart UU. [40 CFR 63.1031(c)]

Compressors: Ensure that the barrier fluid is not in liquid service. Subpart UU. [40 CFR 63.1031(c)]

Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.1024, as applicable. Subpart UU. [40 CFR 63.1031(d)(1)]

Compressors: Equipment/operational data recordkeeping by electronic or hard copy once initially and upon change or revision. Keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. Subpart UU. [40 CFR 63.1031(d)(2)]

Compressors (routed to a process or fuel gas system or equipped with a closed-vent system): Equip with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed-vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either 40 CFR 63.1034 or 63.1021(b). Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(e)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1, 2, 3, 4

FUG 0009 34-75 - No. 2 Urea Plant Fugitives

- 827 [40 CFR 63.1031.f.1] Compressors (operating with instrument reading of less than 500 ppm above background): Organic HAP < 500 ppm above background at all times, as demonstrated initially upon designation, annually, and at other times requested by DEQ. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(1)]
- Which Months: All Year Statistical Basis: None Specified
- Compressors (operating with instrument reading of less than 500 ppm above background): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of a compliance test. Record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test. Comply with this requirement in lieu of the requirements in 40 CFR 63.1031(b) through (d). Subpart UU. [40 CFR 63.1031(f)(2)]
- Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, or 63.1032(d). Operate the system as specified in 40 CFR 63.1032(c)(1) through (c)(5). Subpart UU.
- Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.1021(b), 63.1036, 63.1037, and 63.1033(c) and (d). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart UU. [40 CFR 63.1033(b)]
- Keep the records specified in 40 CFR 63.1038(b) and (c). Subpart UU.
- Submit Initial Compliance Status Report: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(a)(1) through (a)(3), as applicable. Subpart UU. [40 CFR 63.1039(a)]
- Submit Periodic Reports: Due according to the procedures in the referencing subpart. Include the information listed in 40 CFR 63.1039(b)(1) through (b)(8), as applicable. Subpart UU. [40 CFR 63.1039(b)]
- Comply with the requirements in 40 CFR 63 Subpart UU and the requirements referenced therein, except as specified in 40 CFR 63.2480(b) and (d). Subpart FFFF. [40 CFR 63.2480(a)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.
- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Compliance with NESHAP 40 CFR 63 Subpart FFFF has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

RLP 0012 21-75 - No. 2 Urea Vent X-101

- 839 [LAC 33:III.501.C.6] Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

Group: PCS 0004 UREA 1,2,3,4

RLP 0012 21-75 - No. 2 Urea Vent X-101

- 840 [LAC 33:III:501.C.6] Scrubber Flow rate monitored by flow rate monitoring device once every four hours.
Which Months: All Year Statistical Basis: None specified
Ammonia >= 98 % removal efficiency
- 841 [LAC 33:III:501.C.6] Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
- 842 [LAC 33:III:501.C.6] Scrubber Flow rate >= 75.00 gallons/min.
- 843 [LAC 33:III:501.C.6] Which Months: All Year Statistical Basis: None specified

RLP 0022 6-72 - No. 1 Urea Vent X-101

- 844 [LAC 33:III:501.C.6] Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division.
- 845 [LAC 33:III:501.C.6] Scrubber Flow rate >= 150.00 gallons/min.
Which Months: All Year Statistical Basis: None specified
- 846 [LAC 33:III:501.C.6] Scrubber Flow rate monitored by flow rate monitoring device once every four hours.
Which Months: All Year Statistical Basis: None specified
- 847 [LAC 33:III:501.C.6] Scrubber Flow rate recordkeeping by electronic or hard copy once every four hours.
- 848 [LAC 33:III:501.C.6] Ammonia >= 98 % removal efficiency.
Which Months: All Year Statistical Basis: None specified

EQT 0115 1-08 - Fire Water Pump

- 849 [40 CFR 60.4205.c] Carbon monoxide <= 2.6 g/BHP-hr 3.5 g/KW-hr. Subpart III. [40 CFR 60.4205(c)]
Which Months: All Year Statistical Basis: None specified
Particulate matter (10 microns or less) <= 0.40 g/BHP-hr (0.54 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]
- 850 [40 CFR 60.4205.c] Which Months: All Year Statistical Basis: None specified
NOx plus Total hydrocarbon <= 7.8 g/BHP-hr (10.5 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]
- 851 [40 CFR 60.4205.c] Which Months: All Year Statistical Basis: None specified
Operate and maintain stationary C1 ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
- 853 [40 CFR 60.4207.a] Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
- 854 [40 CFR 60.4207.b] Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex

Activity Number: PER20080003

Permit Number: 0180-00004-V4

Air - Title V Regular Permit Major Mod

EQT 0115 1-08 - Fire Water Pump

- 855 [40 CFR 60.4209.a] Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)] Which Months: All Year Statistical Basis: None specified
- 856 [40 CFR 60.4211.a] Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]
- 857 [40 CFR 60.4211.b] Demonstrate compliance according to one of the methods specified in 40 CFR 60.4211(b)(1) through (b)(5). Subpart III. [40 CFR 60.4211(b)]
- 858 [40 CFR 60.4212] Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart III.
- 859 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: Six-minute average

GRP 0021 NOxCap - NOx Facility Wide Averaging Cap

- Group Members: EQT 0010EQT 0011EQT 0012EQT 0017EQT 0023EQT 0027EQT 0059EQT 0083
- 860 [LAC 33:III.2201.D.9] Do not fire an affected point source with Number 6 Fuel Oil or perform testing of emergency and training combustion units without prior approval of DEQ on a day that is designated as an Ozone Action Day by DEQ.
- 861 [LAC 33:III.2201.E.1.a] Establish an emission factor for each applicable affected point source such that if each affected point sources was operated at its averaging capacity, the cumulative emission factor in pounds NOx/MMBtu from all point sources in the averaging group would not exceed the facility-wide emission factor. Use the equations in LAC 33:III.2201.E. a to calculate the cumulative emission rate and the facility-wide emission factor. (Plan with emission factors was submitted on January 18, 2005 and approved on April 18, 2005).
- 862 [LAC 33:III.2201.E.1.i] Equipment/operational data recordkeeping by electronic or hard copy continuously. Carry out recordkeeping that includes, but is not limited to, a record of the data on which the determination of each point source's hourly, daily, or 30-day, as appropriate, compliance with the facility-wide averaging plan is based.
- 863 [LAC 33:III.2201.E.1] Comply with the facility-wide averaging plan as approved by DEQ.
- 864 [LAC 33:III.2201.E.1] Submit a request for approval to use a facility-wide averaging plan, that includes the details of the plan, to DEQ either separately or with the permit application or in the optional compliance plan described in LAC 33:III.2201.F.7. (Plan was submitted on January 18, 2005 and approved on April 18, 2005).
- 865 [LAC 33:III.2201.G.2] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO₂, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 866 [LAC 33:III.2201.J.1] Modify and/or install and bring into normal operation NO_x control equipment and/or NO_x monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

GRP 0021 NOxCap - NOx Facility Wide Averaging Cap

- 867 [LAC 33:III.2201.J.2] Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NO_x reduction controls or a NO_x monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
- 868 [LAC 33:III.2201.J.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.

SCN 0006 ALT CO₂ - Ammonia Plants Carbon Dioxide Vents

Group Members: RLP 0013 RLP 0014 RLP 0017 RLP 0020

- 869 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 870 [LAC 33:III.501.C.6] No. 1, 2, 3, and 4 Ammonia Plant carbon dioxide Throughput monitored by technically sound method continuously. In the event Urea Plants Nos. 3 & 4 are unable to meet the minimum consumption of CO₂ in any twelve consecutive month period, a reduction in total CO₂ output from the ammonia plants CO₂ vents, equal to the consumption deficiency may be substituted.
- 871 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: 24-hour rolling average based on a one-hour average
Urea Plants Nos. 3 & 4 carbon dioxide Throughput monitored by technically sound method continuously. In the event Urea Plants Nos. 3 & 4 are unable to meet the minimum consumption of CO₂ in any twelve consecutive month period, a reduction in total CO₂ output from the ammonia plants CO₂ vents, equal to the consumption deficiency may be substituted.
- 872 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: 24-hour rolling average based on a one-hour average
Produce Carbon dioxide >= 934400 tons/yr to be consumed by equipment within the No. 3 and No. 4 Urea Plants. This conditions is intended to show compliance with a permanent VOC reduction associated with a netting operation and is therefore federally enforceable. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total consumption of CO₂ in the Urea Plants Nos. 3 & 4, plus any consumption deficiency and documented, equal reduction in total output of CO₂ from the ammonia plants CO₂ vents, is less than the minimum listed in this specific condition for any twelve consecutive month period.
- 873 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
Submit report: Due annually, by the 31st of March. Report the Urea Plants Nos. 3 & 4 carbon dioxide Throughput and any applicable CO₂ mass balances on the ammonia plant CO₂ vents, documenting the reduction in total CO₂ output from the ammonia plants CO₂ vents equal to the Urea Plants 3 & 4 consumption deficiency, for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- 874 [LAC 33:III.501.C.6] No. 1, 2, 3, and 4 Ammonia Plant carbon dioxide Throughput recordkeeping by electronic or hard copy daily. Urea Plants Nos. 3 & 4 carbon dioxide Throughput recordkeeping by electronic or hard copy daily. Keep records of the total Urea Plants Nos. 3 & 4 carbon dioxide Throughput each month, as well as the total Urea Plants Nos. 3 & 4 carbon dioxide Throughput for the last twelve months. In the event, Urea Plants Nos. 3 & 4 are unable to meet the minimum consumption of CO₂ in any twelve consecutive month period, a reduction in total CO₂ output from the ammonia plants CO₂ vents equal to the consumption deficiency may be substituted. Corroborating CO₂ mass balances on the CO₂ vents shall be recorded. Make records available for inspection by DEQ personnel.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-000004-V4
Air - Title V Regular Permit Major Mod

SCN 0006 ALTCO2 - Ammonia Plants Carbon Dioxide Vents

875 [LAC 33:III.501.C.6]

The maximum output of carbon dioxide is established as 2,873,323.8 tons per year from the No. 1, 2, 3, and 4 Ammonia Plants. This value shall be used to establish any reduction in total CO2 output from the ammonia plants CO2 vents, for the substitution of any consumption deficiency of the Urea Plants Nos. 3 & 4.

UNF 0001 CFInd - Donaldsonville Nitrogen Complex

876 [40 CFR 60.4208]

877 [40 CFR 60]

Comply with all applicable deadlines specified in 40 CFR 60.4208(a) through (h). Subpart III.

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A, including those specified in Table 8 of 40 CFR 60 Subpart III for EQT 11.2.

Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.

Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

Be in compliance with the emission limits and work practice standards in 40 CFR 63 Subpart FFFF Tables 1 through 7 at all times, except during periods of startup, shutdown, and malfunction. Subpart FFFF. [40 CFR 63.2450(a)]

Submit documentation in the precompliance report explaining why an undue safety hazard would be created if the air emission controls were installed, and describe the procedures that will be implemented to minimize HAP emissions from these vent streams, if an emission stream contains energetics or organic peroxides that, for safety reasons, cannot meet an applicable emission limit specified in 40 CFR 63 Subpart FFFF Tables 1 through 7. Subpart FFFF. [40 CFR 63.2450(q)]

Submit all of the notifications in 40 CFR 63.6(h)(4) and (h)(5), 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (h) by the dates specified, as applicable. Subpart FFFF. [40 CFR 63.2515(a)]

Submit notification of intent to conduct a performance test. Due at least 60 calendar days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1), if required to conduct a performance test. Subpart FFFF. [40 CFR 63.2515(c)]

Submit Precompliance Report: Due at least six months prior to the compliance date. Include the information specified in 40 CFR 63.2520(c)(1) through (c)(7), as applicable. Subpart FFFF. [40 CFR 63.2520(a)]

Submit Compliance Report: Due semiannually by August 31 and February 28. Include the information specified in 40 CFR 63.2520(e)(1) through (e)(10). Subpart FFFF. [40 CFR 63.2520(a)]

Submit Notification of Compliance Status Report: Due no later than 150 days after the compliance date specified in 40 CFR 63.2445. Include the information specified in 40 CFR 63.2520(d)(2)(i) through (d)(2)(ix). Subpart FFFF. [40 CFR 63.2520(a)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.2525(a) through (k), as applicable. Subpart FFFF.

All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 12 of 40 CFR 63 Subpart FFFF.

Submit Title V permit application for renewal: Due six months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

UNF 0001 CFInd - Donaldsonville Nitrogen Complex

- 890 [40 CFR 70.6 a.3.(iii)(A)]
Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 891 [40 CFR 70.6 a.3.(iii)(B)]
Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 892 [40 CFR 70.6.c.5.(iv)]
Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 893 [LAC 33:III.1103]
Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111
- 894 [LAC 33:III.1109.B]
Outdoor burning of waste material or other combustible material is prohibited.
- 895 [LAC 33:III.1303.B]
Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 896 [LAC 33:III.2113.A]
Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A-1-5.
- 897 [LAC 33:III.2119]
Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 898 [LAC 33:III.2901.D]
Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 899 [LAC 33:III.2901.F]
If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 900 [LAC 33:III.507.G.5]
Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years. Comply with the requirements of PSD-LA-594 and PSD-LA-744. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-594 and PSD-LA-744.
- 901 [LAC 33:III.5109]
Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51. Subchapter A, after the effective date of the standard.
- 902 [LAC 33:III.5105.A.1]
Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109.B.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

UNF 0001 CFInd - Donaldsonville Nitrogen Complex

- 904 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 905 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 906 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 907 [LAC 33:III.5107.A] Submit Annual Emissions Report (TEDI): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 908 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 909 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 910 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- 911 [LAC 33:III.5107.B.4] Submit notification in writing: Due to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- 912 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 913 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 914 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 915 [LAC 33:III.5151.F.1] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

SPECIFIC REQUIREMENTS

AI ID: 2416 - CF Industries Inc - Donaldsonville Nitrogen Complex
Activity Number: PER20080003
Permit Number: 0180-00004-V4
Air - Title V Regular Permit Major Mod

UNF 0001 CFInd - Donaldsonville Nitrogen Complex

- 916 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 917 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 918 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 919 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 920 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 921 [LAC 33:III.5907] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 922 [LAC 33:III.5911.C] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 923 [LAC 33:III.919.D] Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.
- Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.